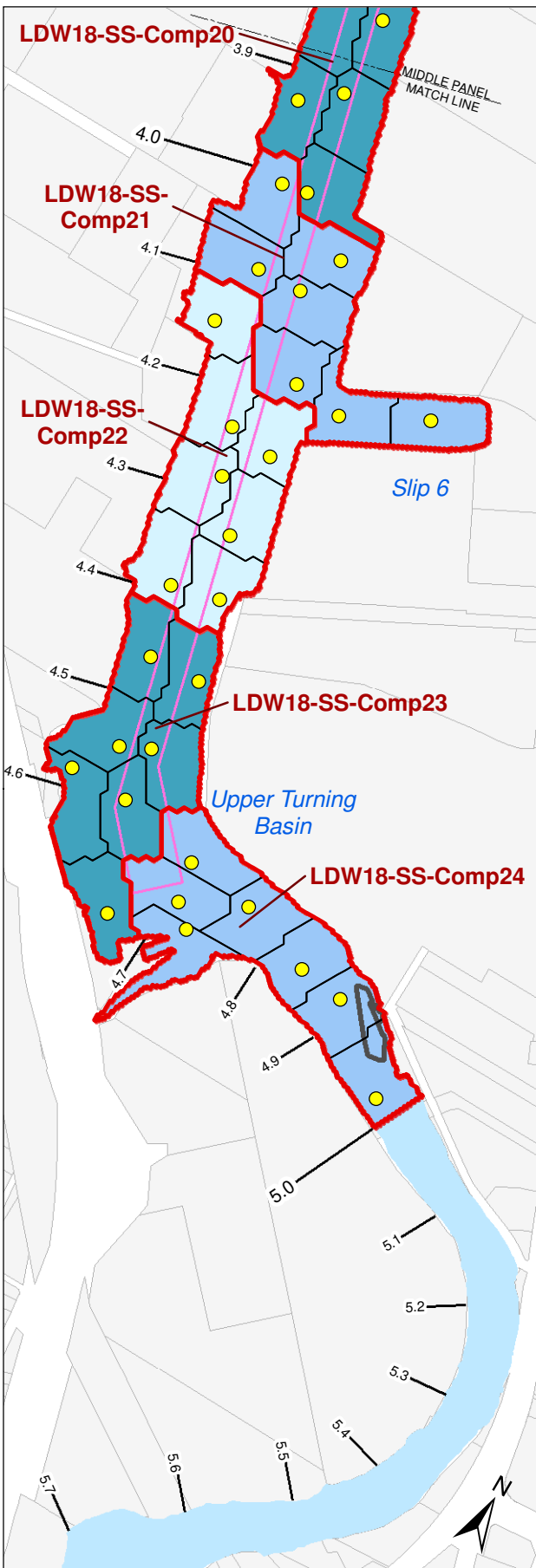
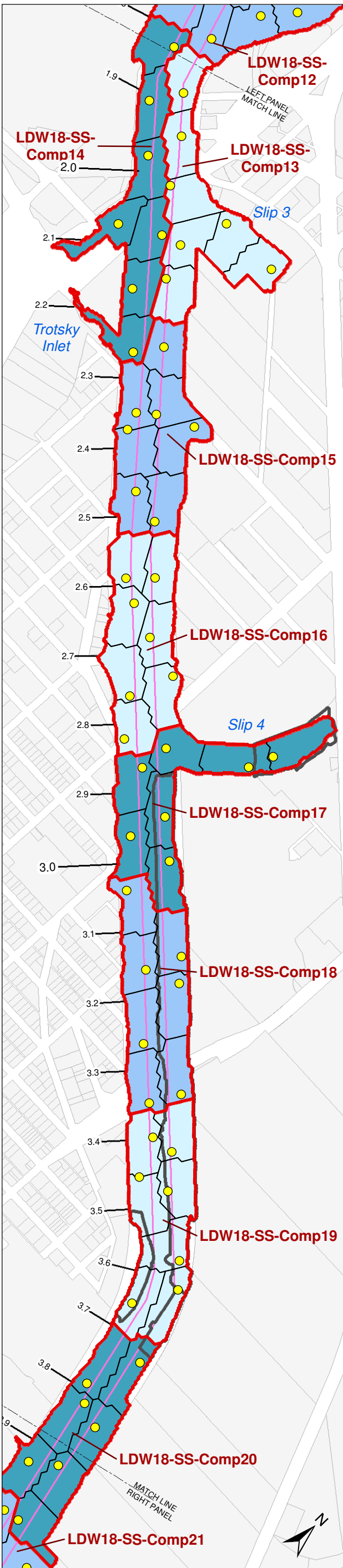
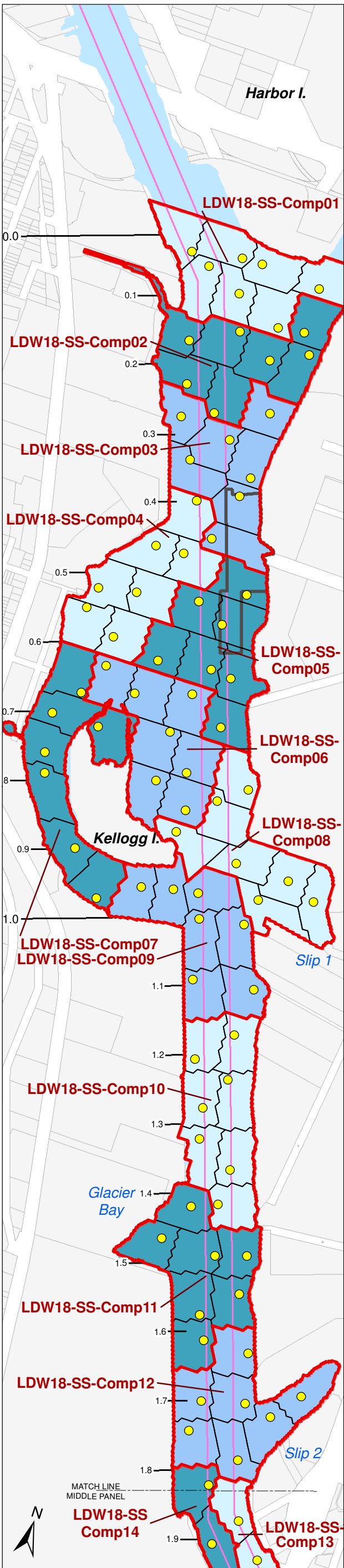


Prepared by craigh, 6/25/20: W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 2-01 6868 Surfaced composites.mxd



- Baseline surface sediment location (0-10 cm)**
- Sample location included in a composite
  - Composite area
  - Sampling areas combined into composites
  - Early Action Area
  - King Co tax parcel
  - Navigation Channel
  - River mile

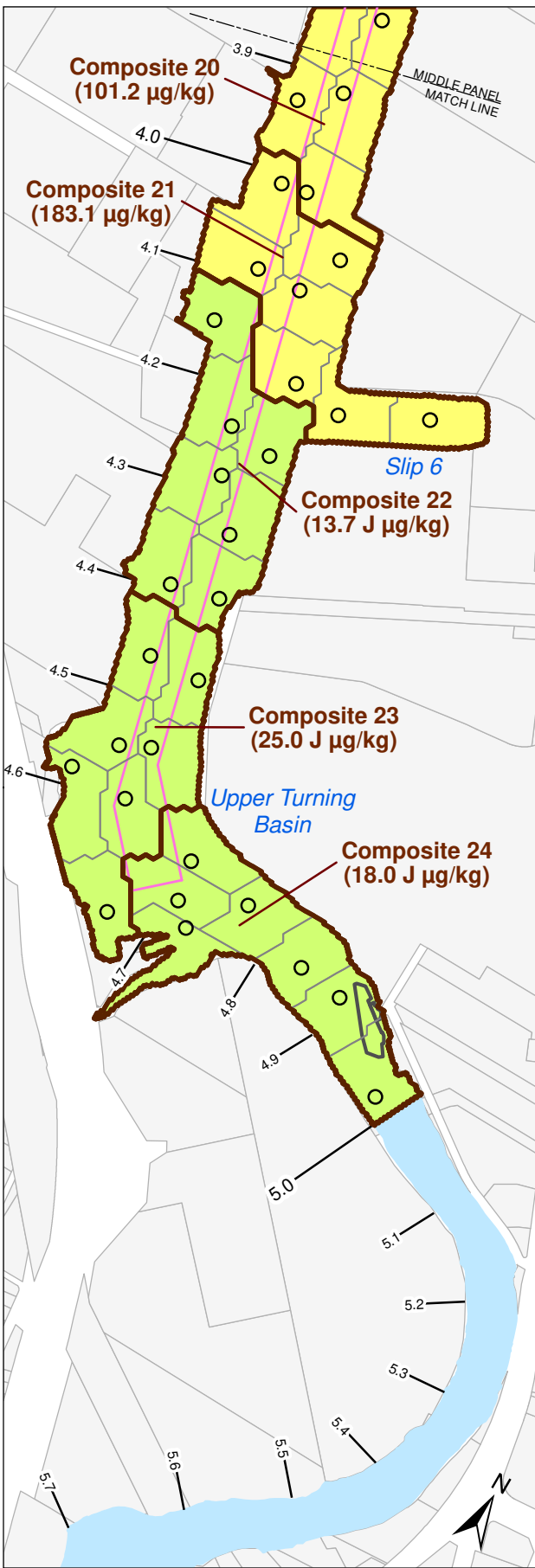
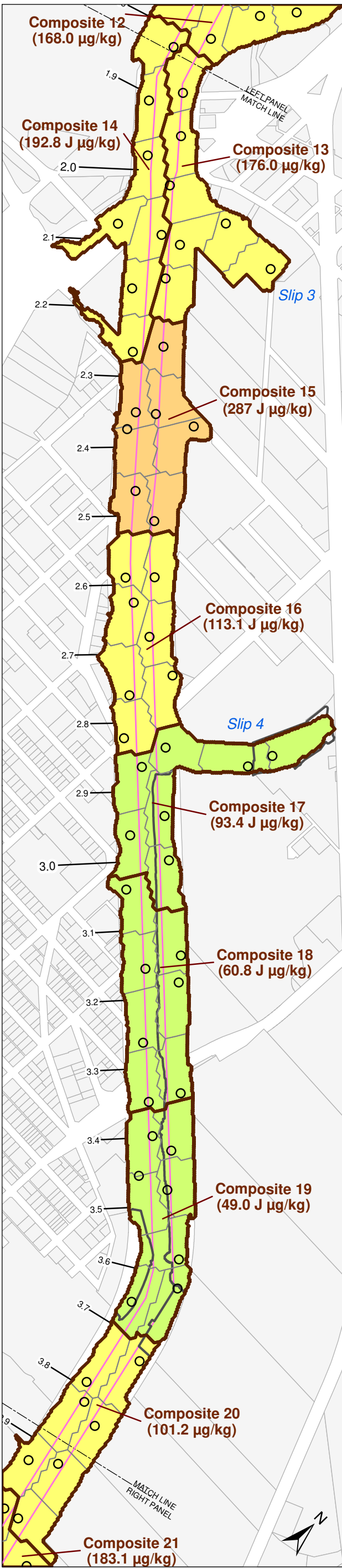
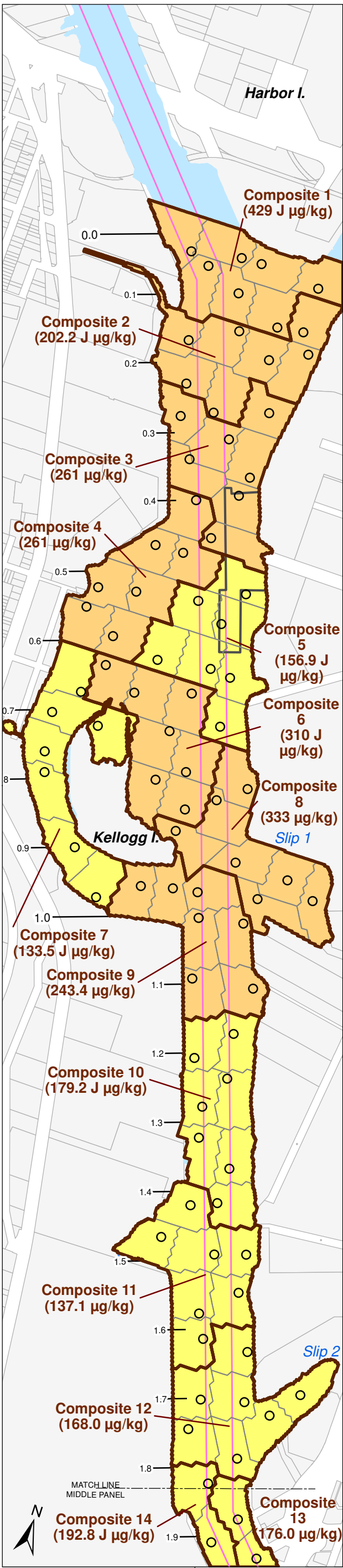
Windward  
environmental LLC

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0 0.1 0.2 Miles  
0 0.2 0.4 Kilometers  
Scale is the same for each inset map

Map 2-1. Locations of baseline surface sediment composite samples

Prepared by craigh, 6/25/20: W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 2-02 6849 Surface sediment compositing data - PCB Aroclors.mxd



**Total PCB Aroclors (µg/kg) in baseline surface sediment composite samples**

> 200

> 100 and ≤ 200

≤ 100

Sampling area

Randomly located subsample for sediment composite samples

Early Action Area

King Co tax parcel

Navigation Channel

River mile

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0 0.1 0.2 Miles

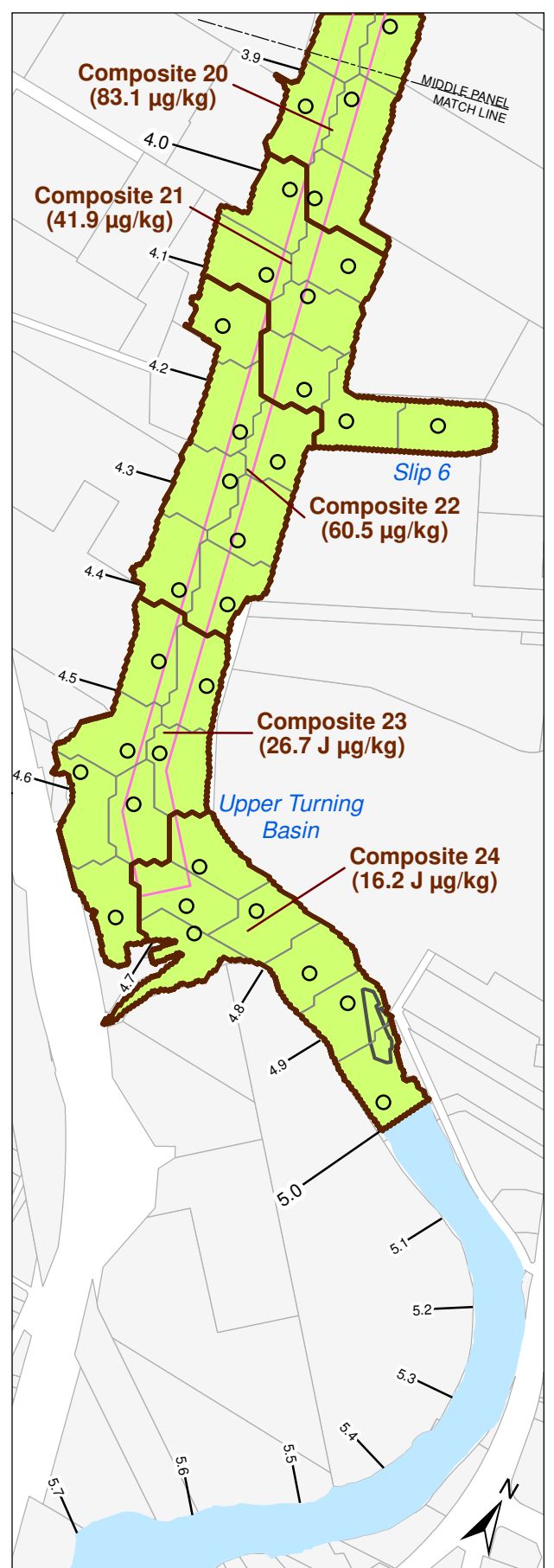
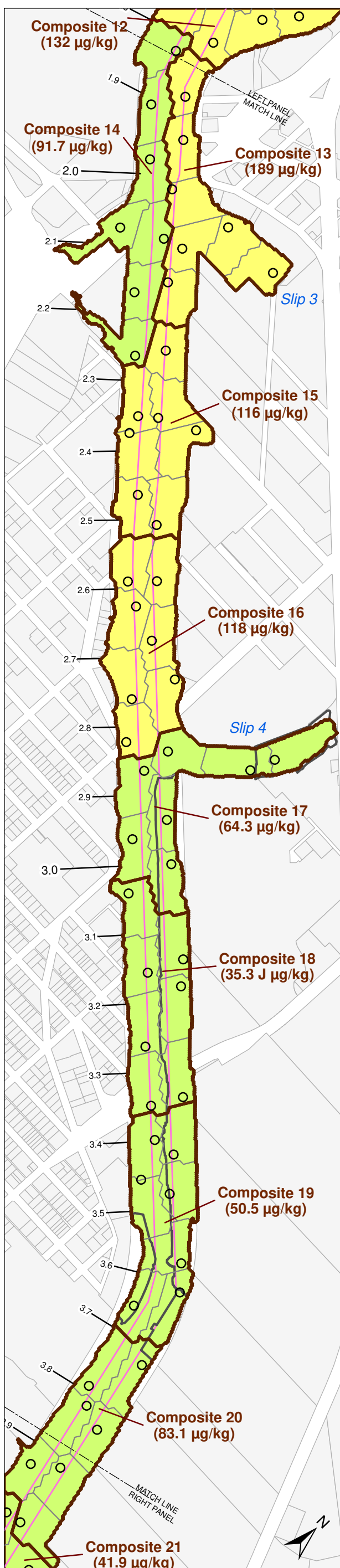
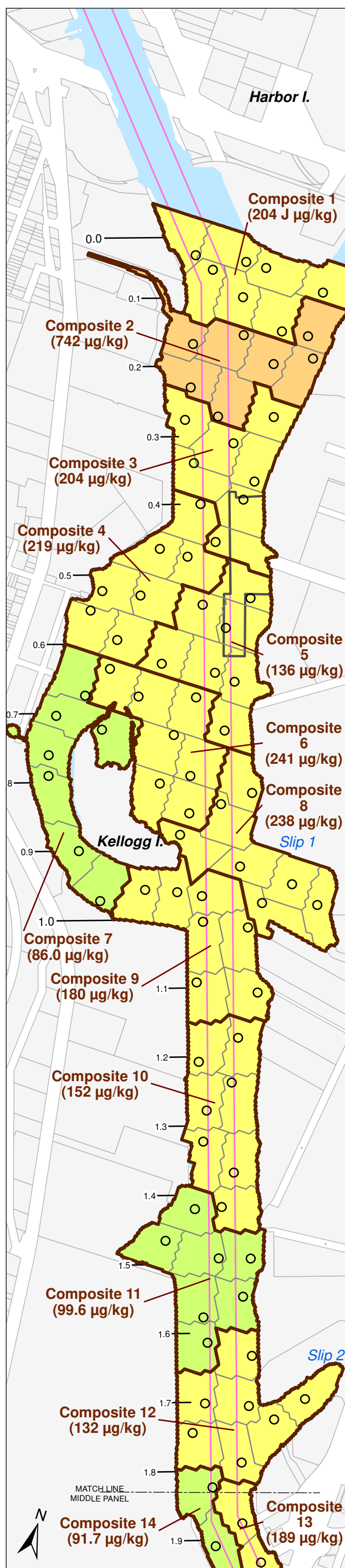
0 0.2 0.4 Kilometers

Scale is the same for each inset map

**Map 2-2. Total PCB concentrations in Pre-Design Studies baseline surface sediment composite samples**

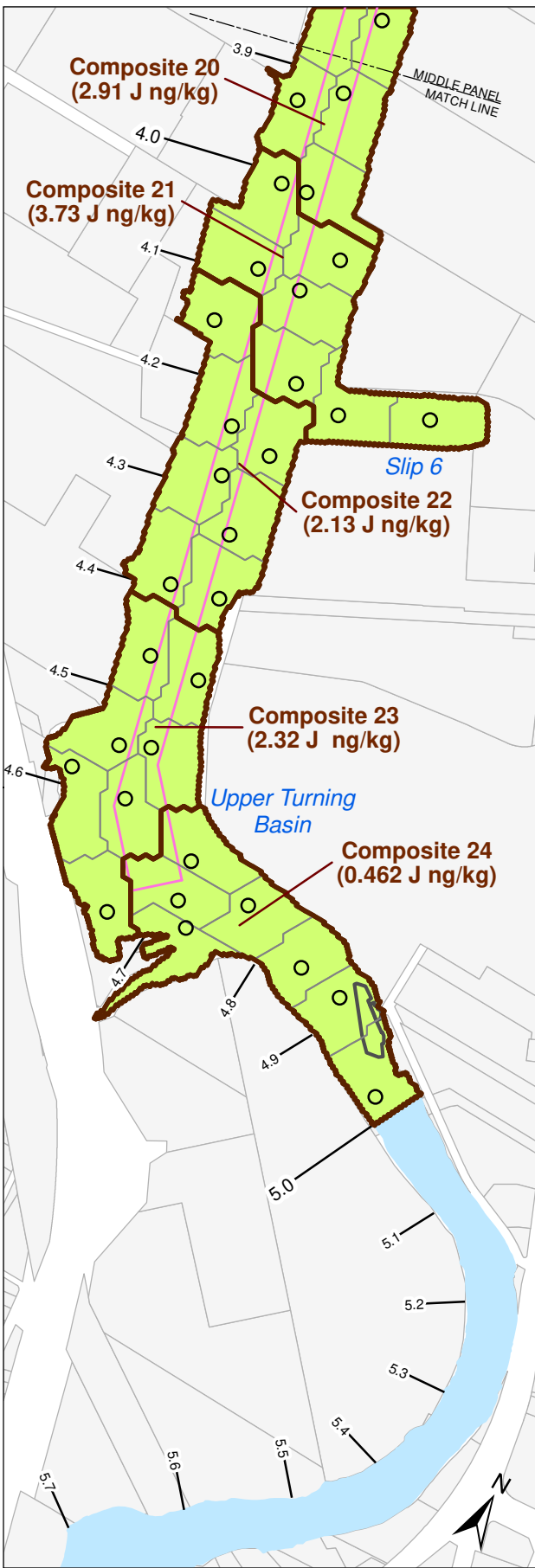
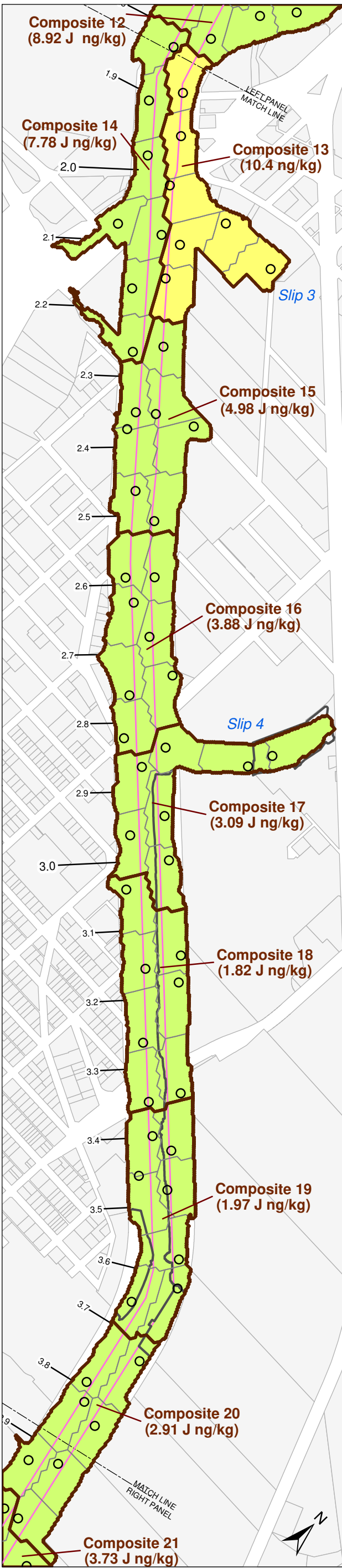
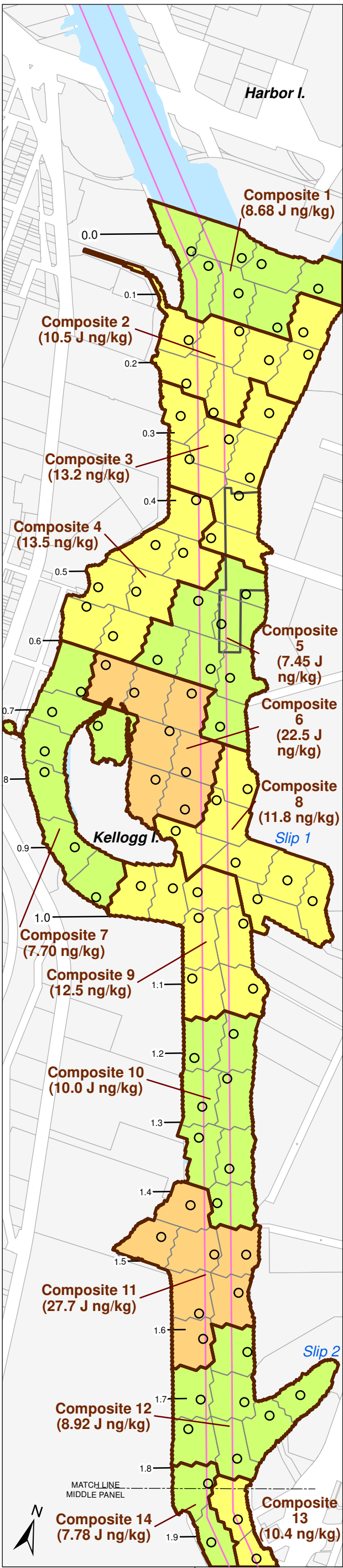
LDW PRE-DESIGN STUDIES DATA EVALUATION REPORT







Prepared by craigh, 6/25/20: W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 2-04-6849 Surface sediment composting data - DF.mxd

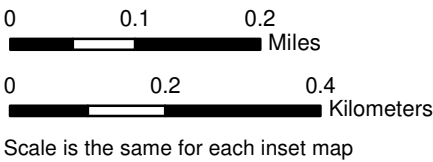


**Dioxin/furan TEQ (ng/kg) in baseline surface sediment composite samples**

- > 20
- > 10 and ≤ 20
- ≤ 10
- Sampling area
- Randomly located subsample for sediment composite samples
- Early Action Area
- King Co tax parcel
- Navigation Channel
- River mile

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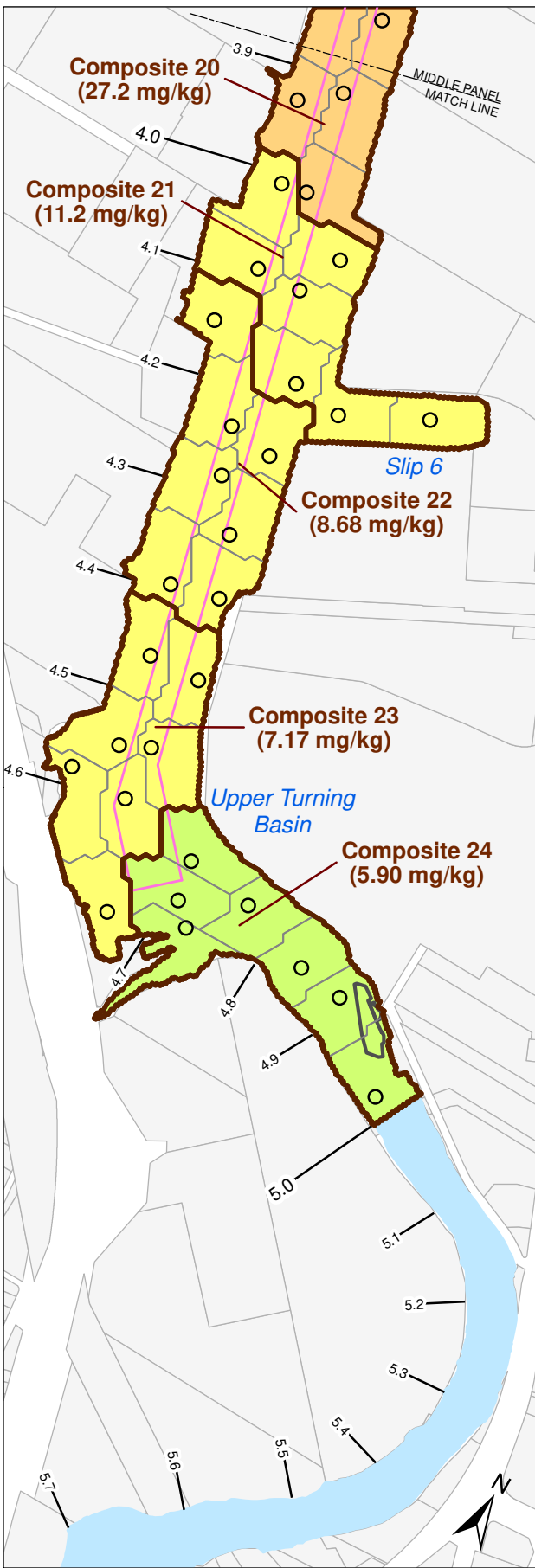
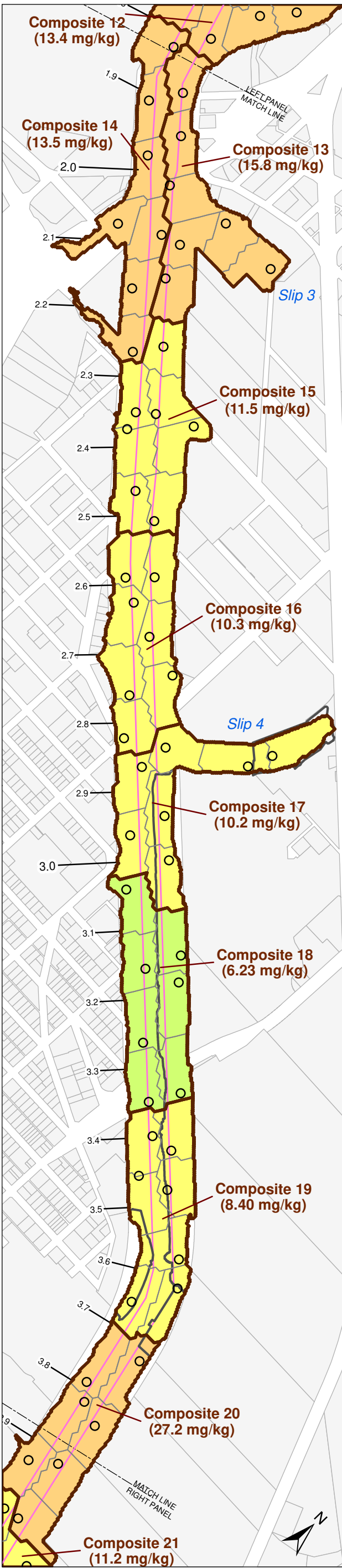
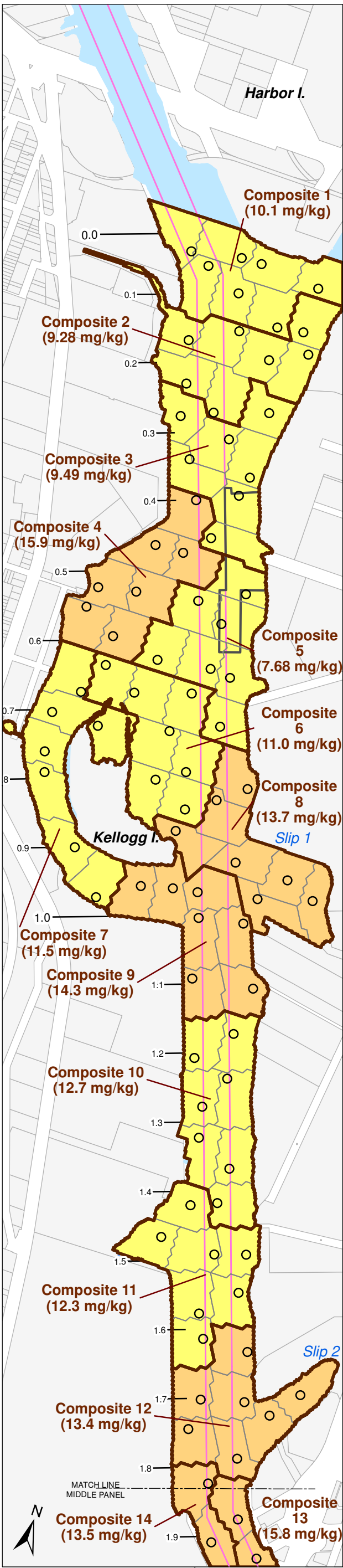


**Map 2-4. Dioxin/furan TEQs in Pre-Design Studies baseline surface sediment composite samples**

**LDW PRE-DESIGN STUDIES DATA EVALUATION REPORT**



Prepared by craigh, 6/25/20; W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 2-05 6849 Surface sediment compositing data - Arsenic.mxd



**Arsenic (mg/kg) in baseline surface sediment composite samples**

> 13

> 7 and ≤ 13

≤ 7

Sampling area

Randomly located subsample for sediment composite samples

Early Action Area

King Co tax parcel

Navigation Channel

River mile

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0 0.1 0.2  
Miles

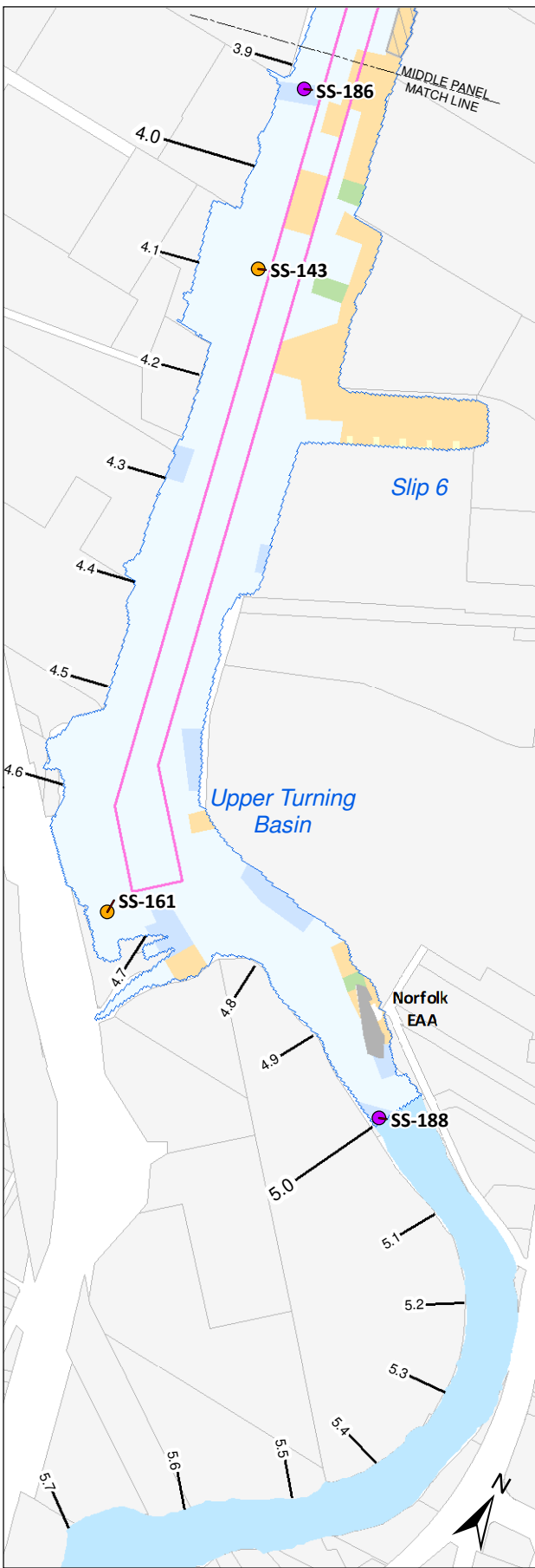
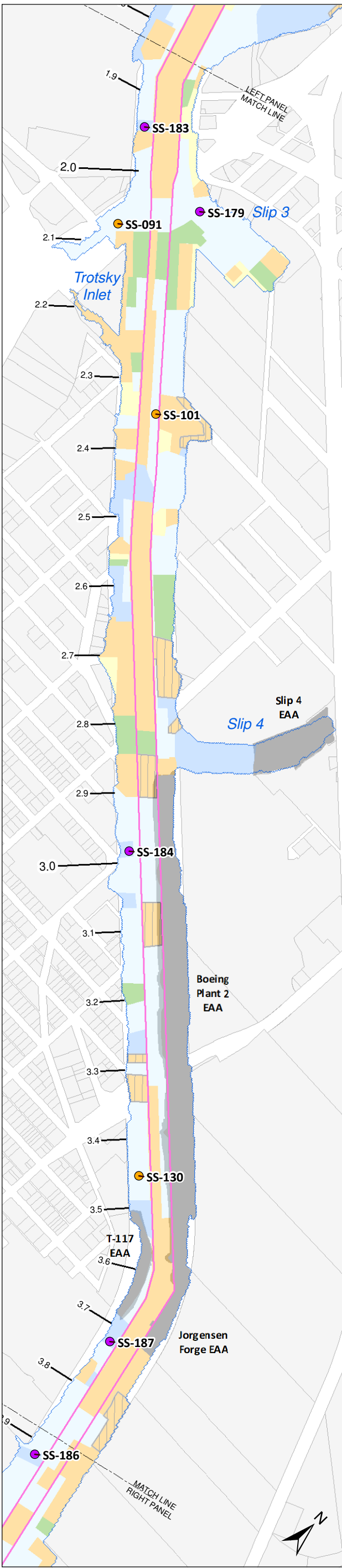
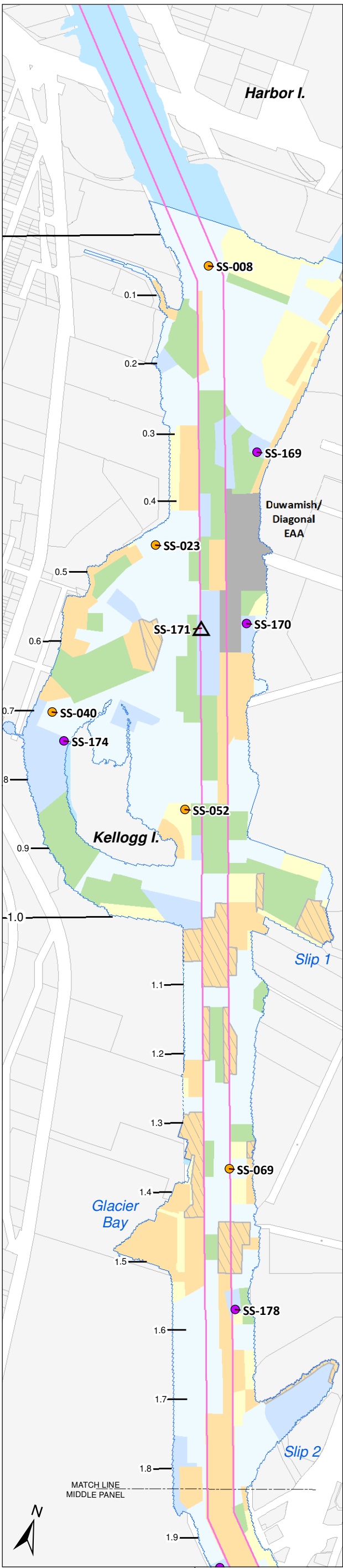
0 0.2 0.4  
Kilometers

Scale is the same for each inset map

**Map 2-5. Arsenic concentrations in Pre-Design Studies baseline surface sediment composite samples**

**LDW PRE-DESIGN STUDIES DATA EVALUATION REPORT**

Prepared by craigh, 6/25/20: W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 2-06 6868 Surf sed SMS.mxd



**Baseline surface sediment location (0-10 cm)**

- Random RAO3 sample
- Reoccupied RAO3 sample
- Porewater re-occupied sample

**Preliminary Technology Assignments (ROD Fig. 18)<sup>a</sup>**

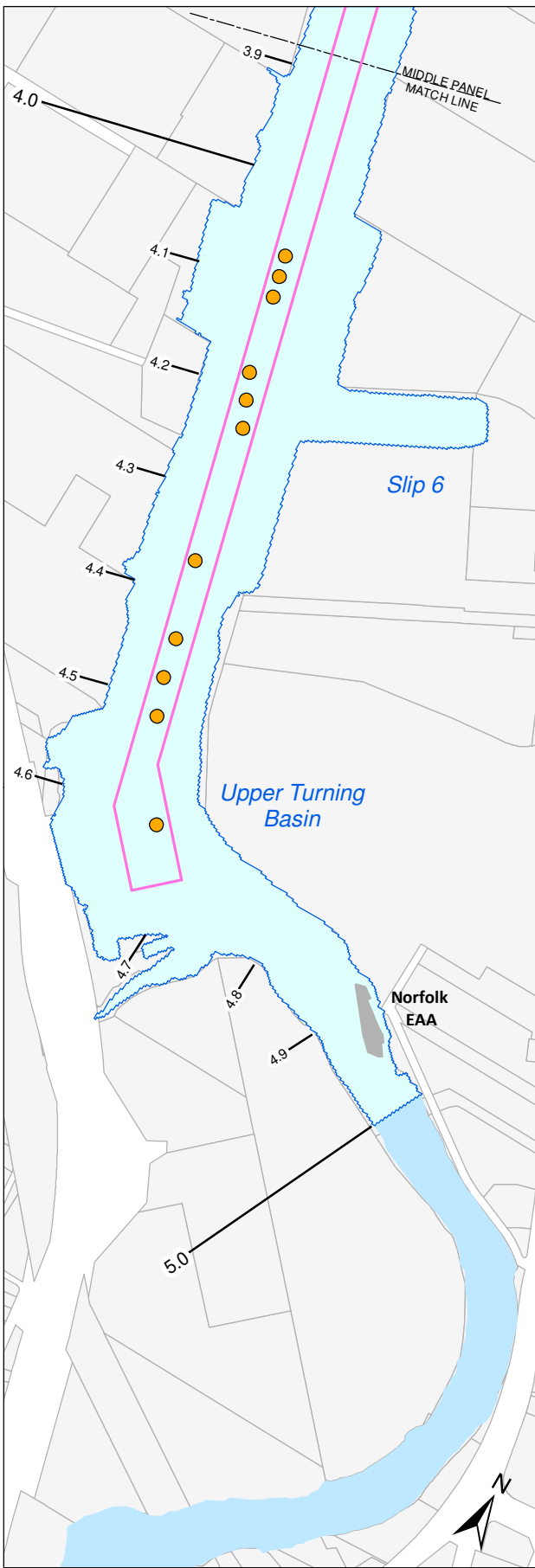
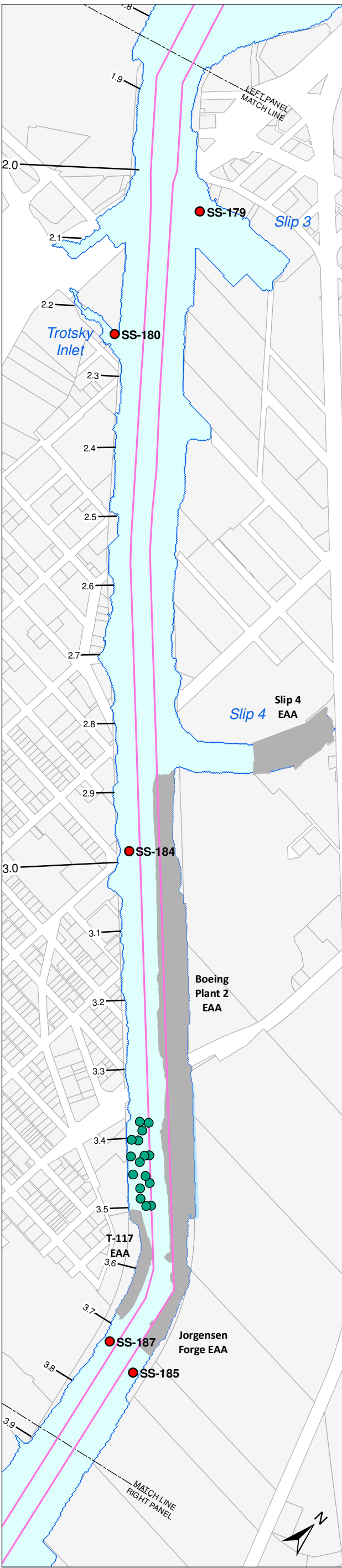
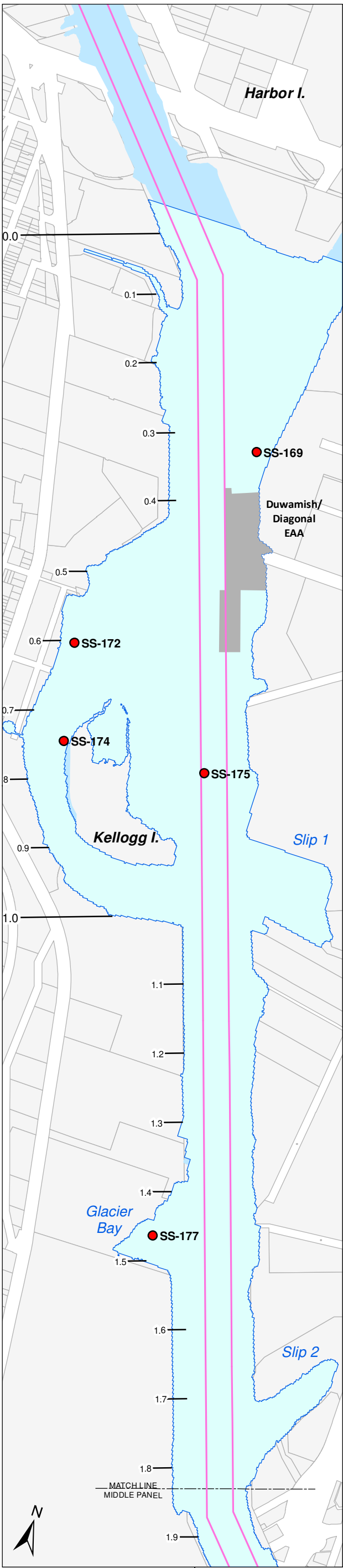
- Dredge
- Partial Dredge and Cap
- Cap
- ENR/*in situ*
- Monitored Natural Recovery (Surface Sediment >SCO)
- Monitored natural recovery (Surface Sediment <SCO)
- Early Action
- LDW Superfund Boundary
- King Co tax parcel
- Navigation Channel
- River mile

<sup>a</sup> Source: EPA 2014.

**Map 2-6. Locations of baseline individual surface sediment samples in MNR areas**



Prepared by craigh, 6/25/20; W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 2-07 6995 PCB Aroclors and congeners.mxd



- Pre-Design Studies (2018) surface sediment location for PCB porewater investigation
- South Park Marina (2016) sediment core
- USACE (2012) sediment core
- Early Action Area
- LDW Superfund Boundary
- King Co tax parcel
- Navigation Channel
- River mile

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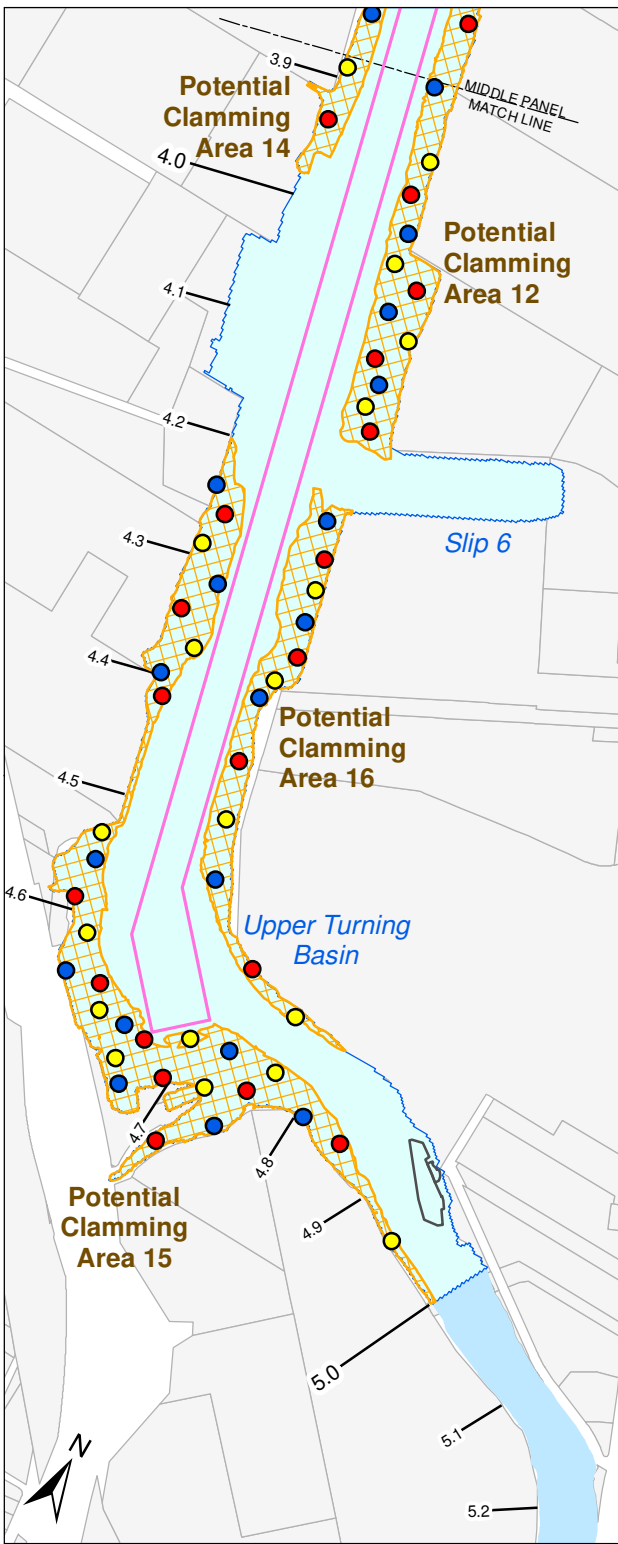
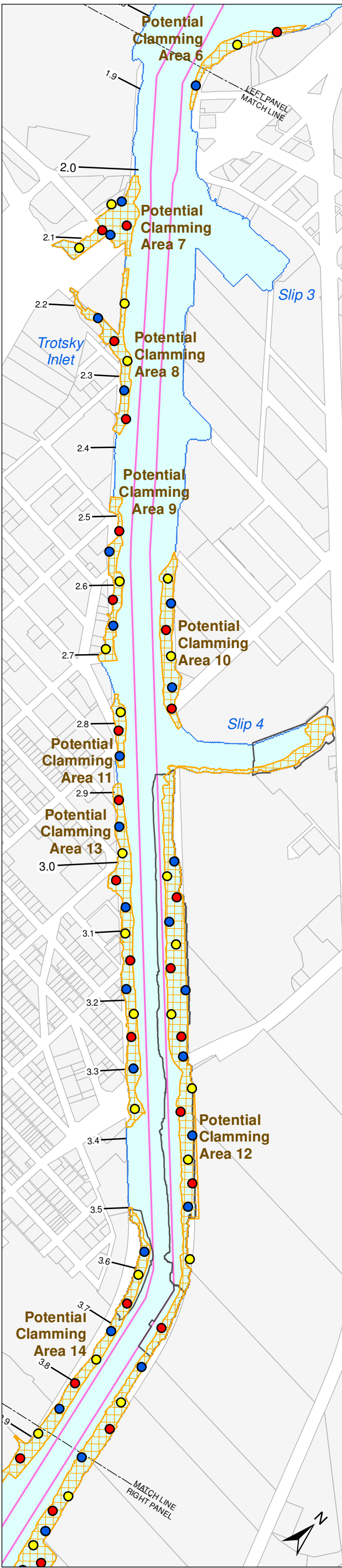
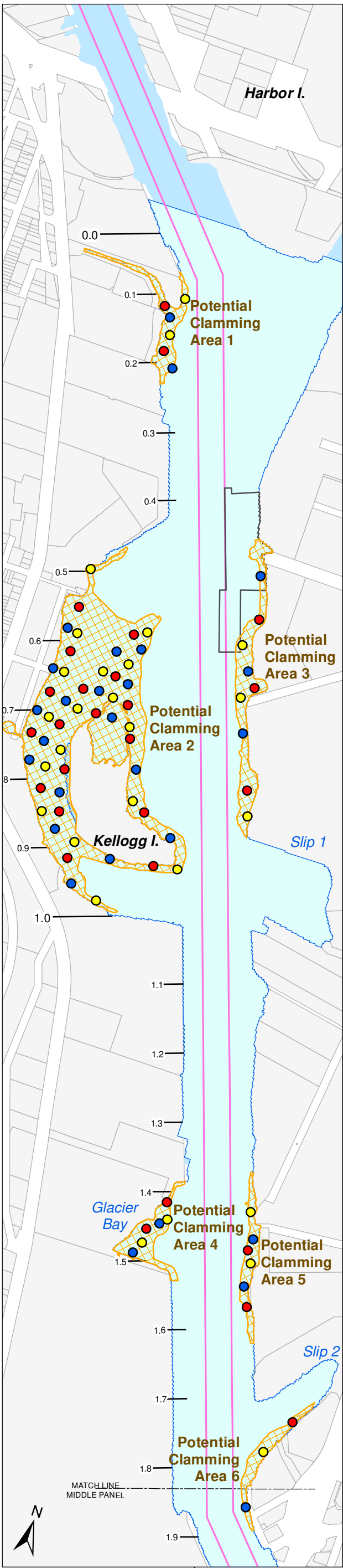
Lower Duwamish Waterway Group  
Port of Seattle / City of Seattle / King County / The Boeing Company

0 0.1 0.2 Miles  
0 0.2 0.4 Kilometers  
Scale is the same for each inset map

Map 2-7. Locations of baseline sediment samples analyzed for PCB Aroclors and congeners

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Prepared by craigh, 6/25/20; W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 2-08 6517 Interstitial sampling - clamming areas.mxd



Potential clamming area grab sample collection locations (0-45 cm)

- Composite 1
- Composite 2
- Composite 3
- ▨ Potential clamming area
- Early Action Area
- ▒ LDW Superfund Boundary
- ▒ King Co tax parcel
- Navigation Channel
- River mile

Chemical	RAO 2 Site-Wide Clamming Area Cleanup Level	Site-Wide Potential Clamming Area 95UCL
Total PCBs (ug/kg)	500	1,690
Arsenic (mg/kg)	7	14.0
cPAH TEQ (ug/kg)	150	913
Dioxin/Furan TEQ (ng/kg)	13	88.5

Yellow highlight indicates 95 UCL is greater than the ROD CUL.

Map 2-8. Locations of 0-45-cm grab samples collected for the baseline potential clamming area sediment composite samples

LDW PRE-DESIGN STUDIES DATA EVALUATION REPORT

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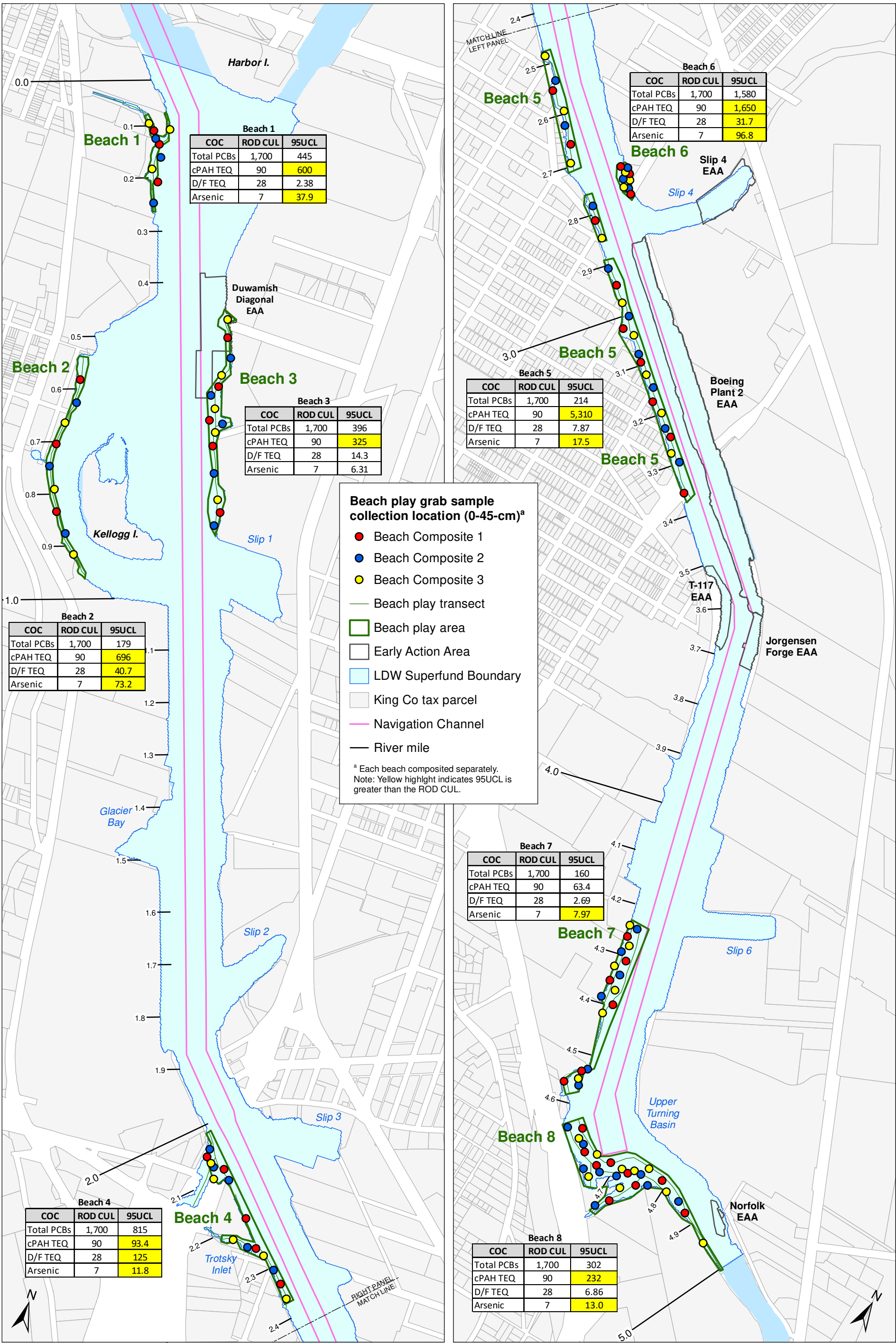
0 0.1 0.2  
Miles

0 0.2 0.4  
Kilometers

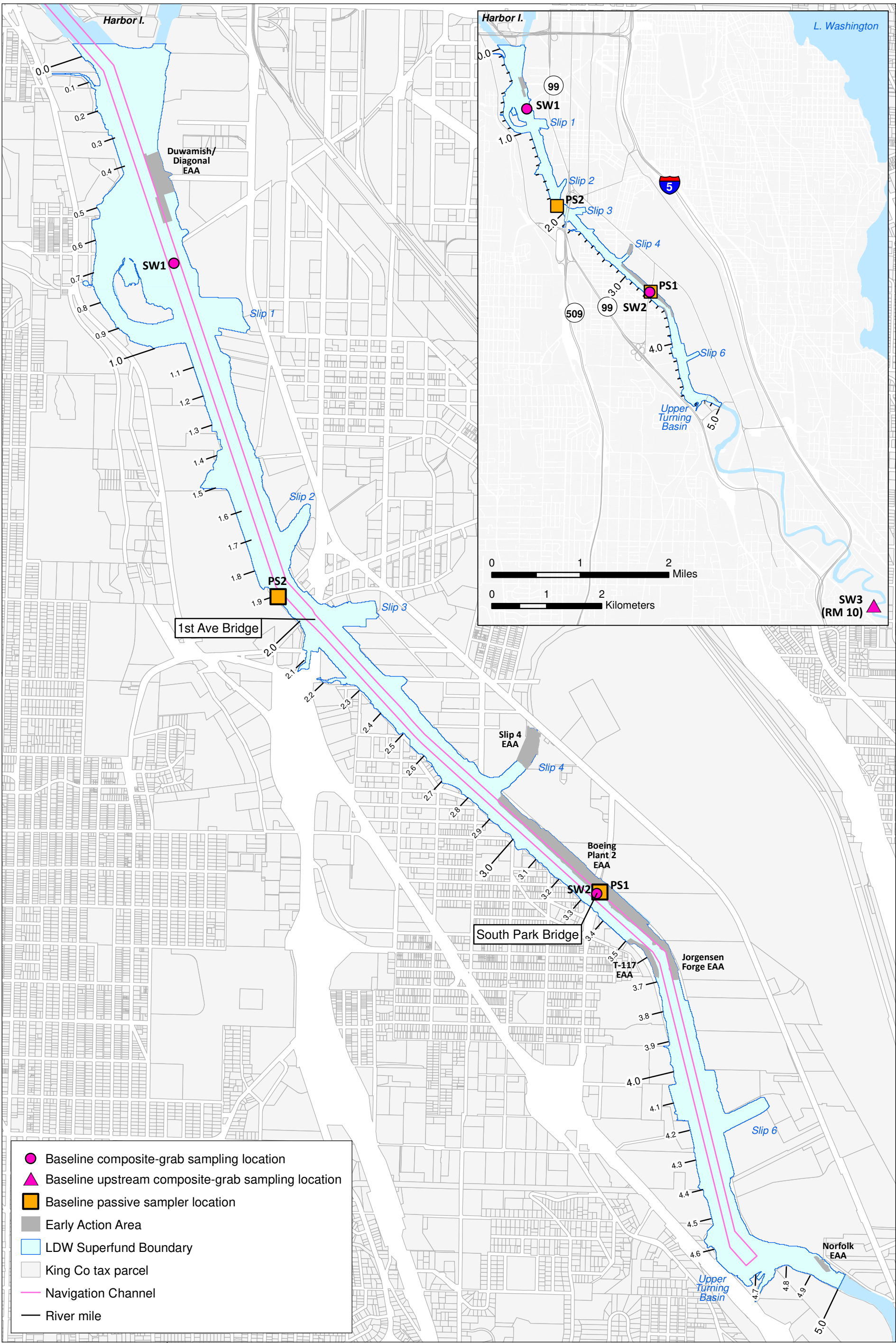
Scale is the same for each inset map



Prepared by craigh, 6/25/20; W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 2-09 6517 Intertidal sampling - beach play areas.mxd







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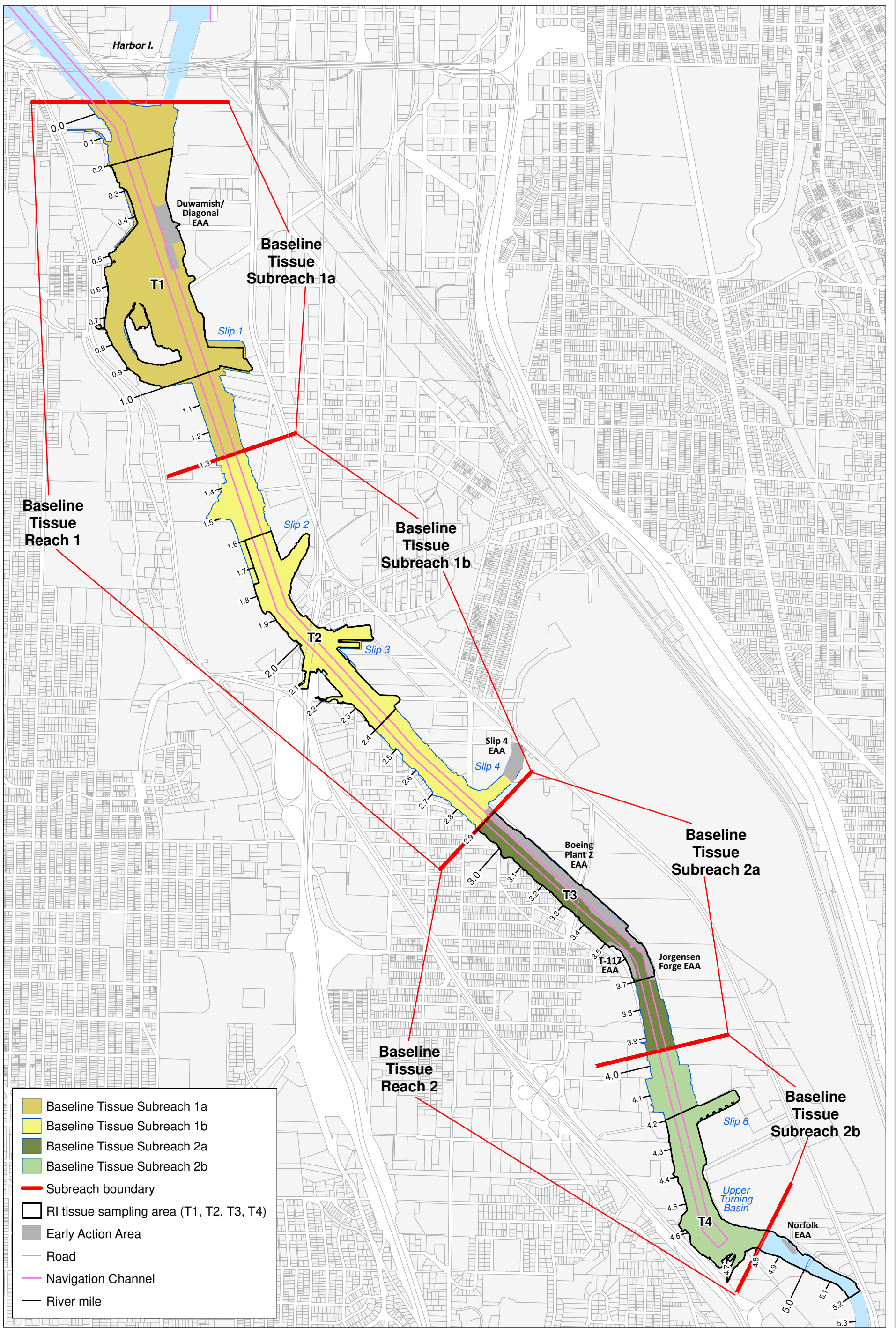
0 0.25 0.5 Miles  
0 0.5 1 Kilometers

**Map 3-1. Locations of baseline surface water composite-grab samples and passive sampler deployment**

**LDW PRE-DESIGN STUDIES DATA EVALUATION REPORT**



Prepared by craigh, 6/25/20: W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 4-1 6986 Fish-crab reaches.mxd



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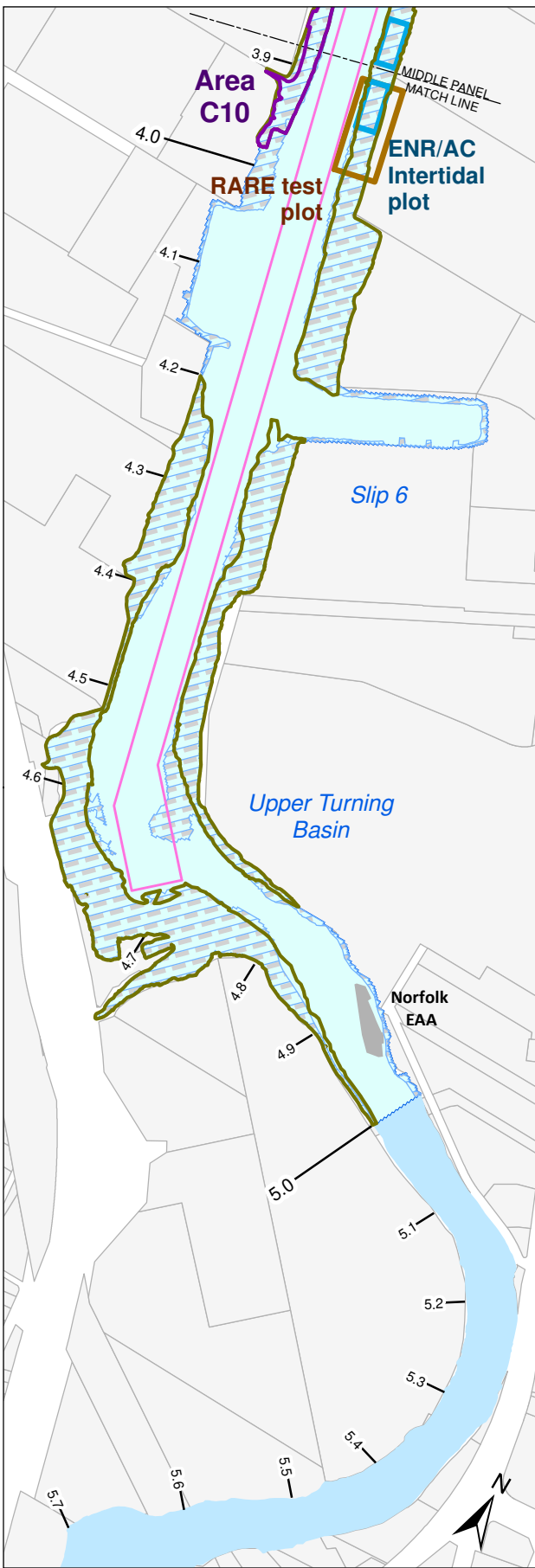
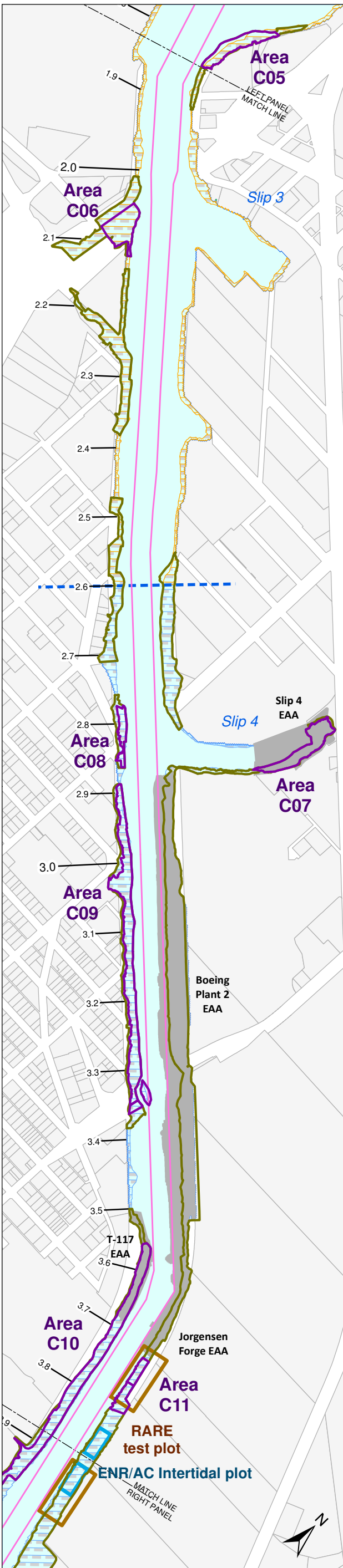
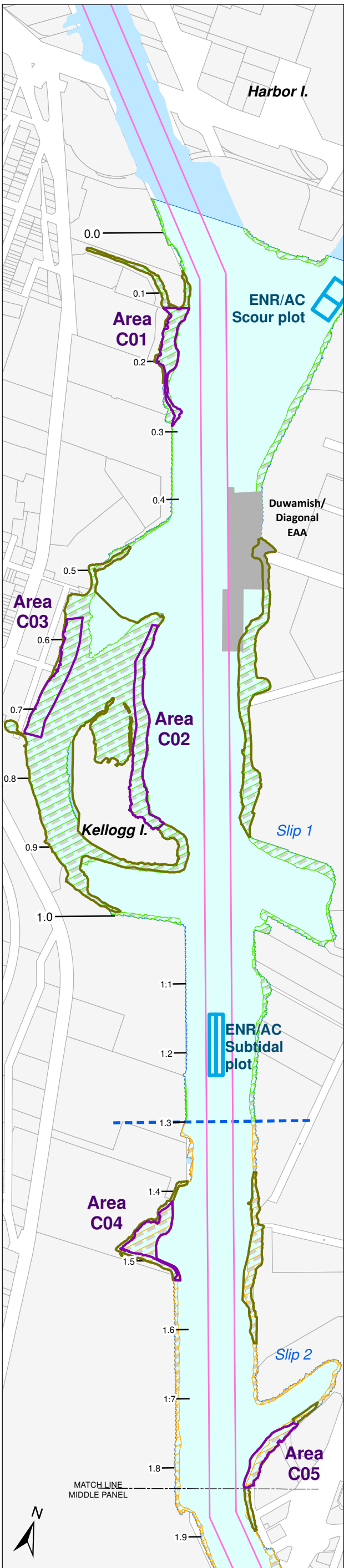
0 0.2 0.4 Miles  
0 0.2 0.4 Kilometers

Map 4-1. Sampling reaches and subreaches for baseline fish and crab tissue sampling

LDW PRE-DESIGN STUDIES DATA EVALUATION REPORT



Prepared by craigh, 6/25/20; W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 5-1 6593 Clam collection areas.mxd



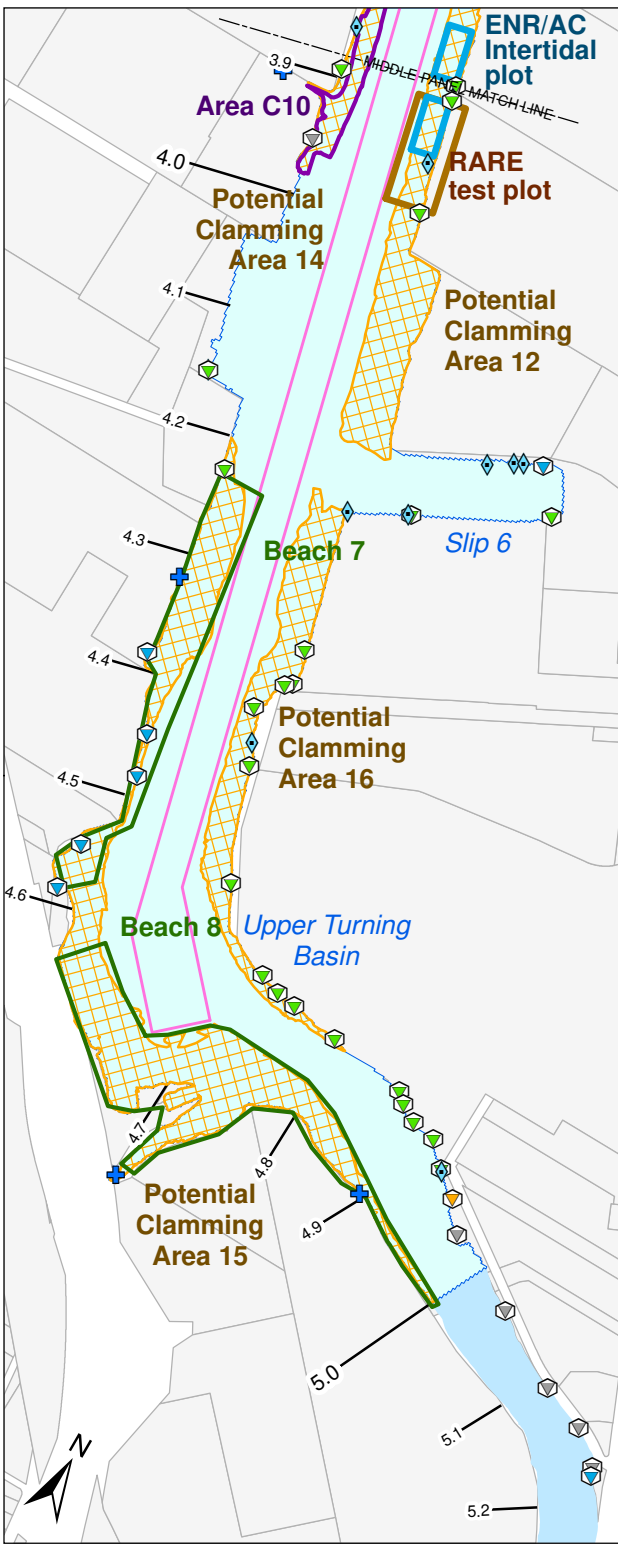
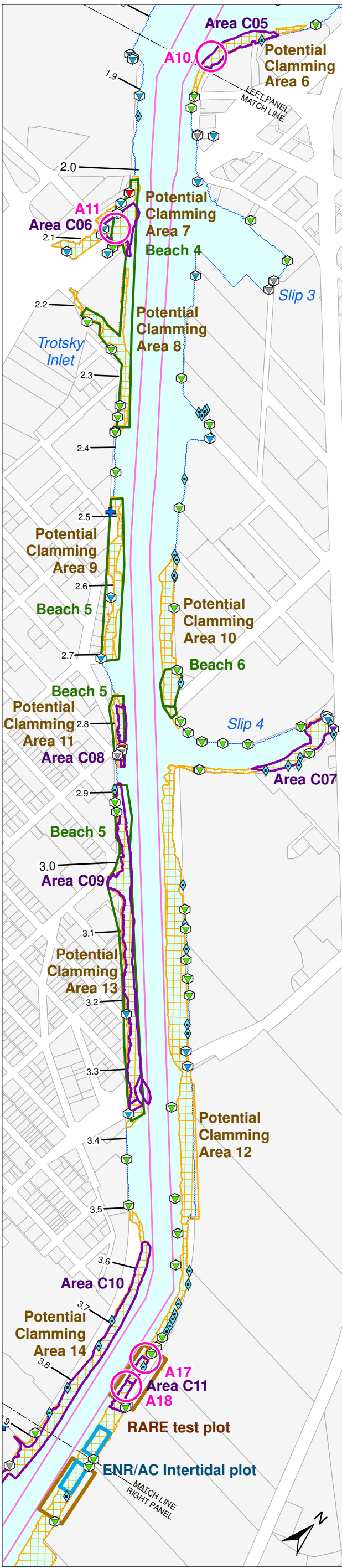
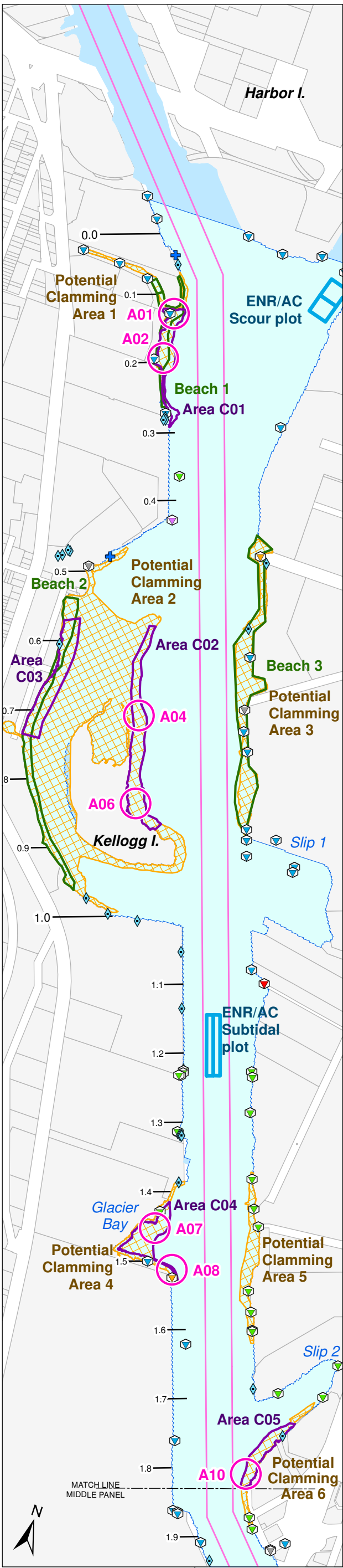
- Clam tissue collection area<sup>a</sup>
- Clam tissue intertidal segments**
  - Segment 1
  - Segment 2
  - Segment 3
- Intertidal segment boundary
- Potential clamming area<sup>b</sup>
- Early Action Area
- ENR/AC Pilot Study area
- RARE test plot
- LDW Superfund Boundary
- King Co tax parcel
- Navigation Channel
- River mile

<sup>a</sup> Based on LDW RI clam tissue collection areas.  
<sup>b</sup> Areas of sediment where clams may occur and where sitewide sediment data were collected.

Map 5-1. Baseline clam tissue collection areas



Prepared by craigh, 6/25/20, W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 5-2 6517 Intertidal sampling - all.mxd



- Potential clamming area (intertidal sediment)
  - Clam tissue collection area (clam tissue)
  - Beach play area (intertidal sediment)
  - cPAH porewater investigation area (intertidal sediment, clams, and porewater)
- Outfall classification**
- CSO
  - CSO/storm drain
  - CSO/EOF
  - EOF/storm drain
  - Private storm drain
  - Public storm drain
  - Pipe of unresolved origin and/or use
  - Abandoned/inactive
  - Stream, channel, or ditch
  - ENR/AC Pilot Study area
  - RARE test plot
  - LDW Superfund Boundary
  - King Co tax parcel
  - Navigation Channel
  - River mile

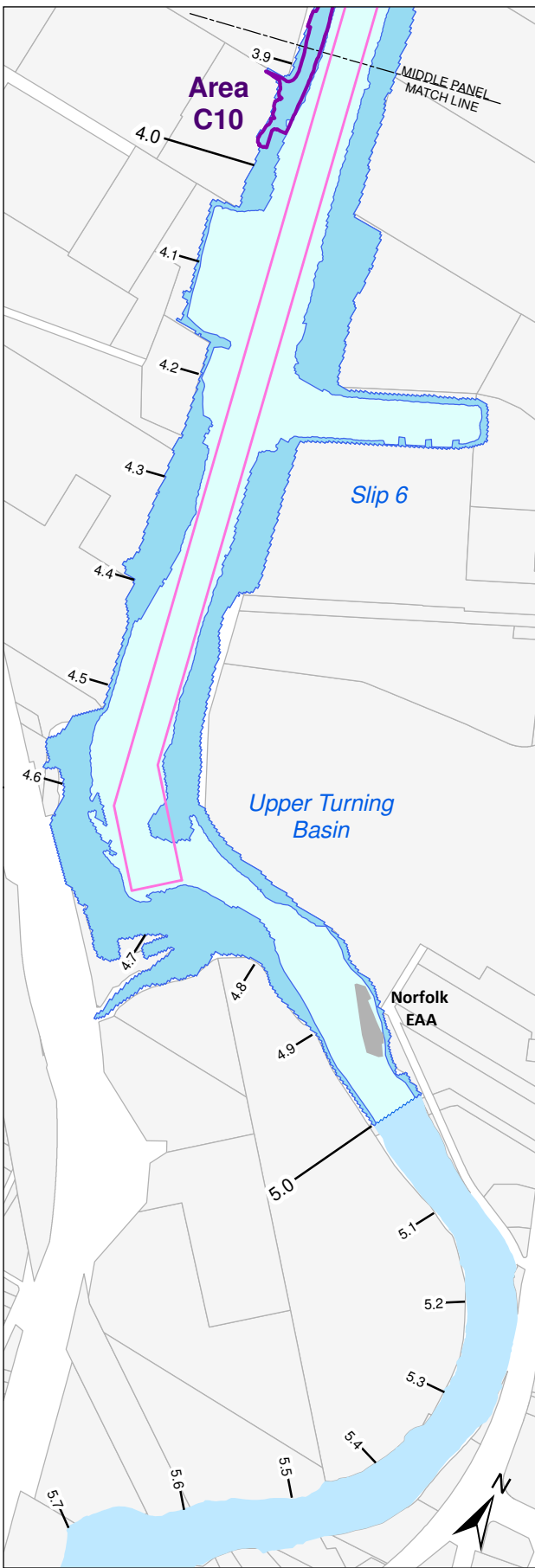
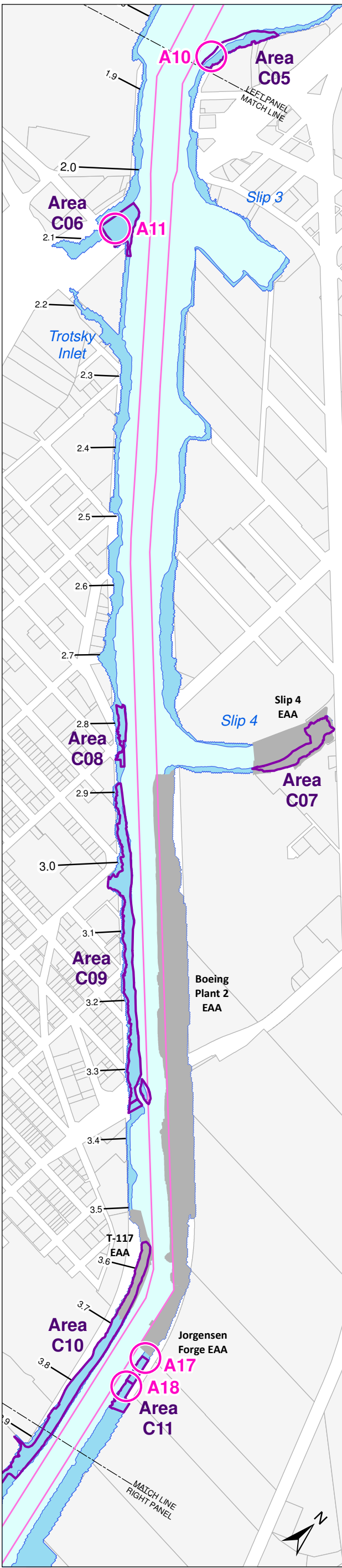
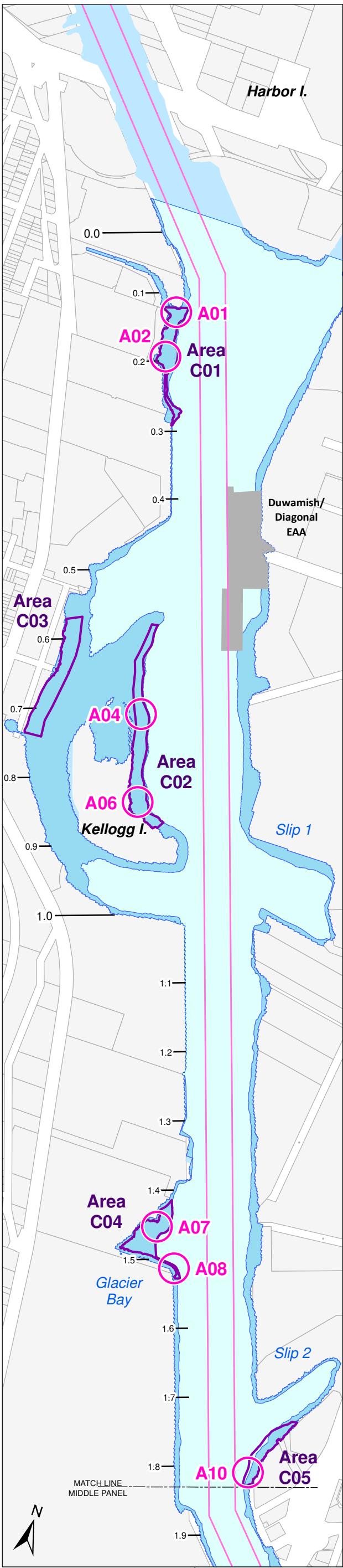
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environmental LLC

Lower Duwamish Waterway Group  
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0 0.1 0.2 Miles  
0 0.2 0.4 Kilometers  
Scale is the same for each inset map

Map 5-2. Potential clamming areas, clam tissue collection areas, cPAH porewater study areas, and beach play areas

Prepared by craigh, 6/25/20: W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 6-1 6593 Clam and cPAH PW sampling.mxd



- Clam tissue collection area<sup>a</sup>
- cPAH porewater investigation area
- Intertidal area
- Early Action Area
- LDW Superfund Boundary
- King Co tax parcel
- Navigation Channel
- River mile

<sup>a</sup> Based on LDW RI clam tissue collection areas.

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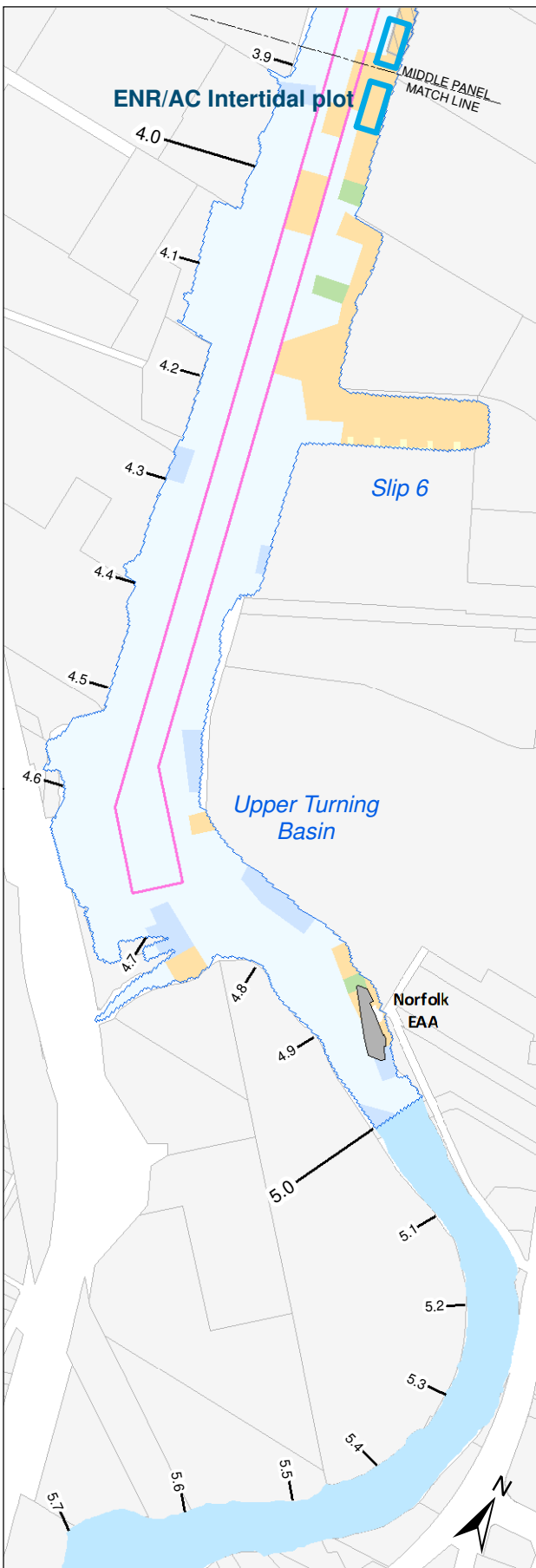
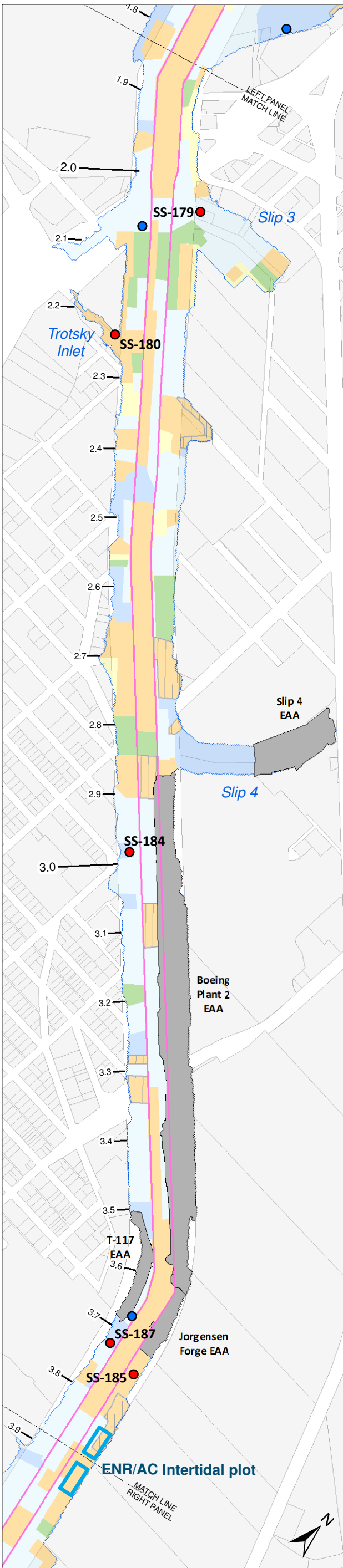
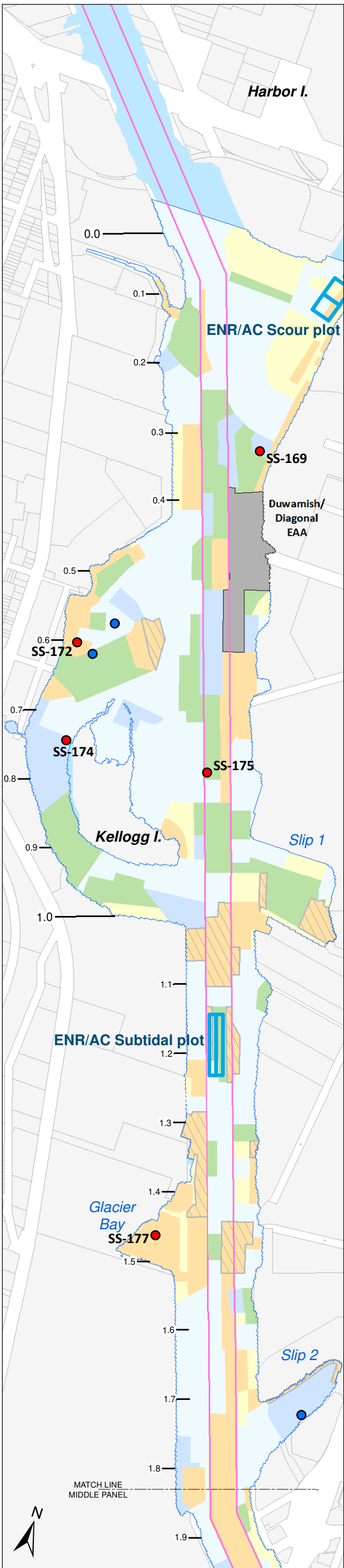
0 0.1 0.2 Miles  
0 0.2 0.4 Kilometers  
Scale is the same for each inset map

Map 6-1. Targeted clam tissue collection and cPAH porewater investigation areas

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Prepared by craigh. 6/25/20: W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 6-2 6607 MIT-ENRAC with Selected Remedy.mxd



- Pre-Design Studies (2018) surface sediment and porewater location
  - MIT Study (November 2012) sediment and porewater location<sup>a</sup>
  - ENR/AC Pilot Study area - baseline sediment and porewater data collected for each plot
- Preliminary Technology Assignments (ROD Fig. 18)<sup>b</sup>**
- Dredge
  - Partial Dredge and Cap
  - Cap
  - ENR/*in situ*
  - Monitored Natural Recovery (Surface Sediment >SCO)
  - Monitored natural recovery (Surface Sediment <SCO)
  - Early Action Area
  - LDW Superfund Boundary
  - King Co tax parcel
  - Navigation Channel
  - River mile

<sup>a</sup> All locations are approximate pending receipt of data.  
<sup>b</sup> Source: EPA 2014.

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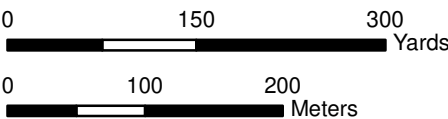
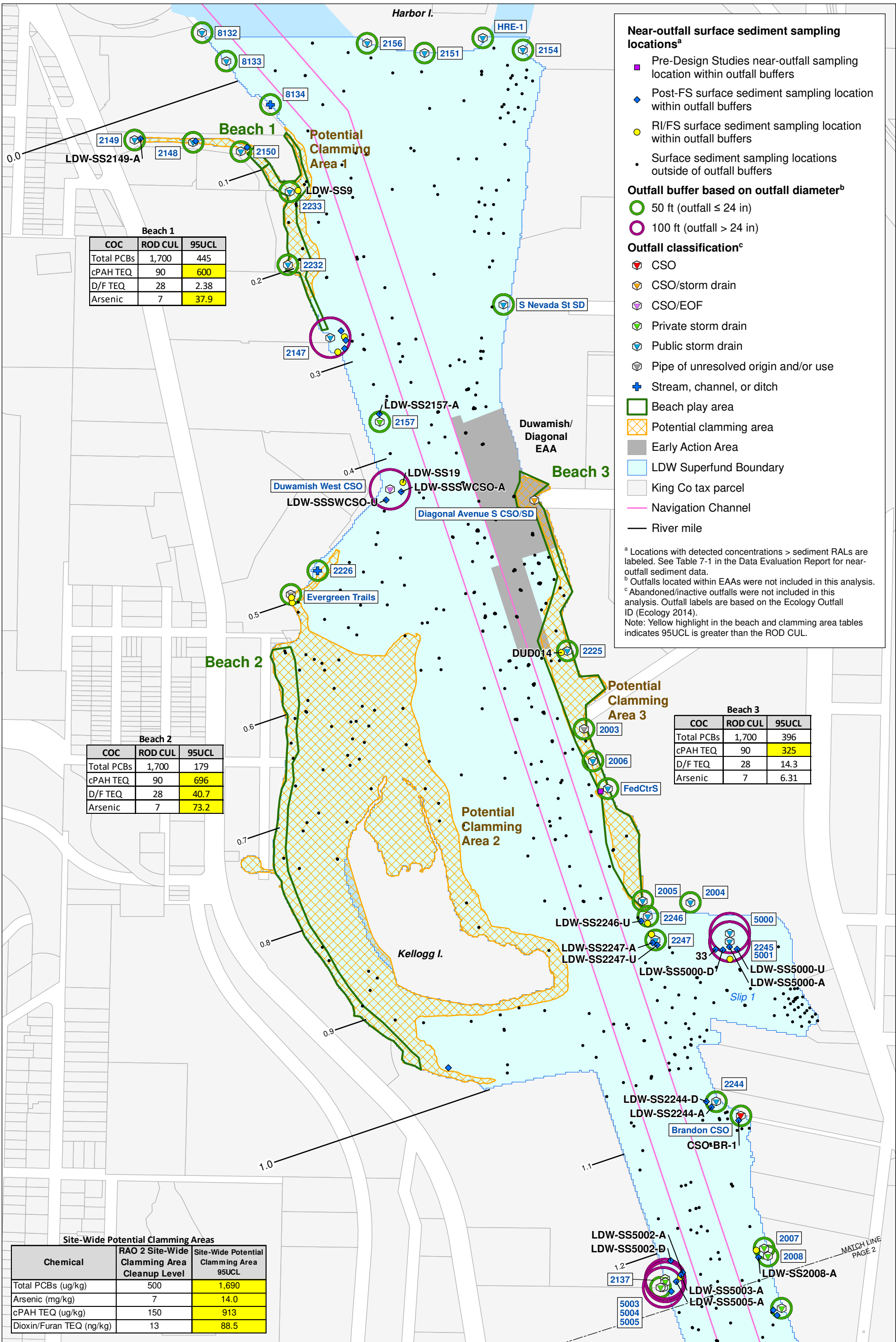
Lower Duwamish Waterway Group  
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0 0.1 0.2 Miles  
0 0.2 0.4 Kilometers  
Scale is the same for each inset map

**Map 6-2. Baseline PCB porewater locations relative to ROD Figure 18 preliminary technology assignments, ENR/AC pilot areas, and MIT study locations**

LDW PRE-DESIGN STUDIES DATA EVALUATION REPORT

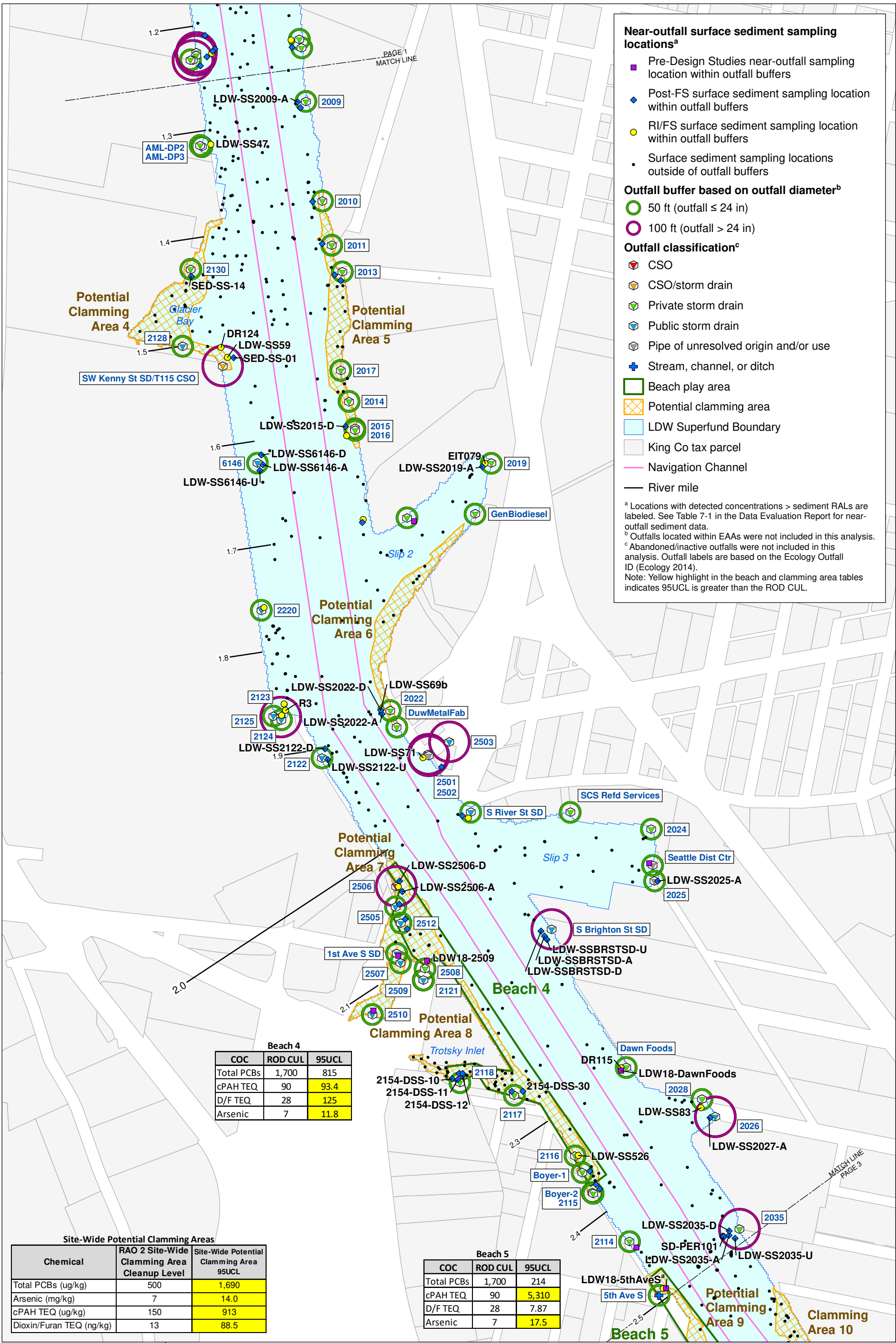
Prepared by craigh. 6/25/20. W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 7-1a 6894 Near-outfall locations.mxd



**Map 7-1a. Surface sediment sample locations near outfalls, RM 0.0 to RM 1.2**

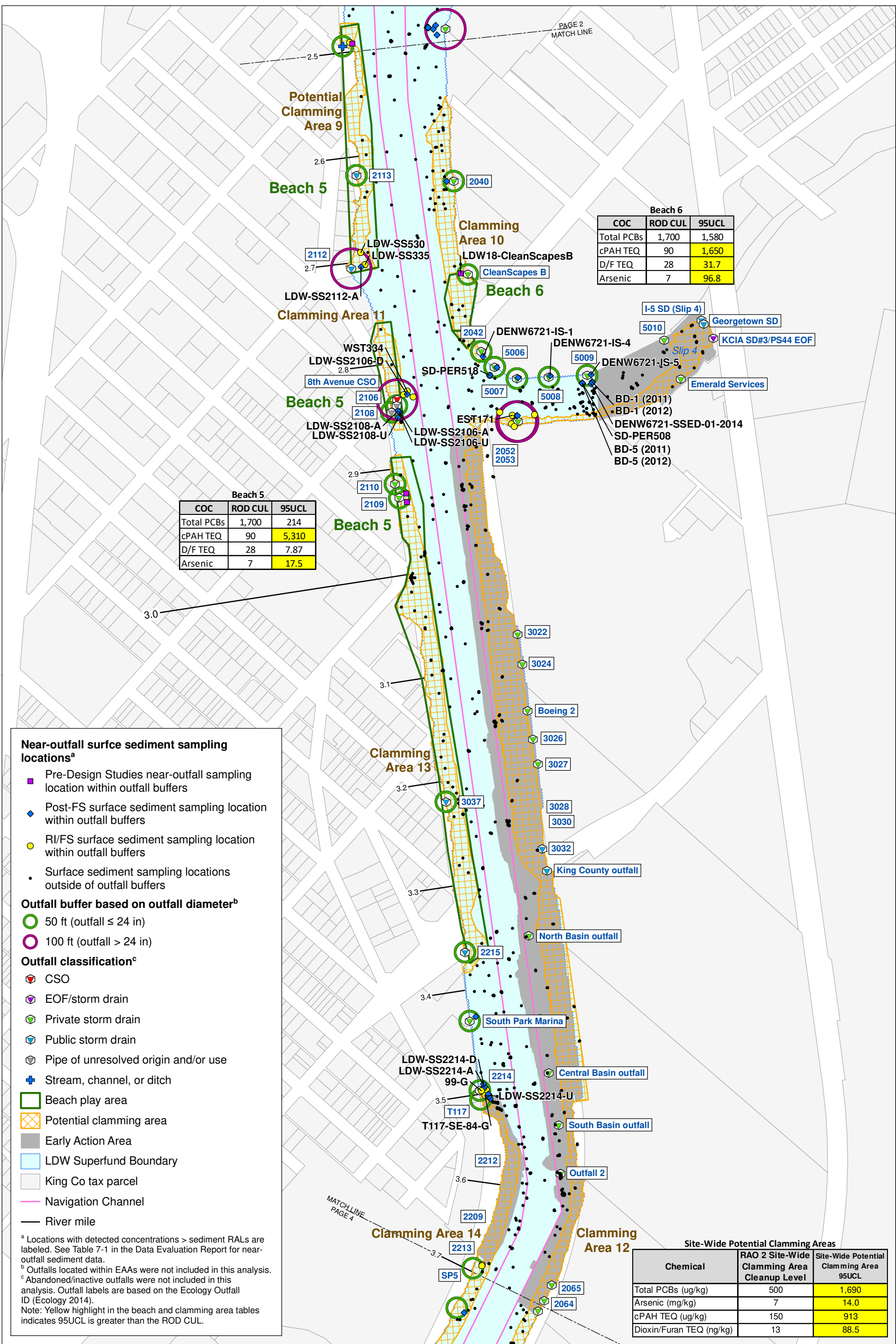


Prepared by craigh, 6/25/20; W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 7-1b 6894 Near-outfall locations.mxd



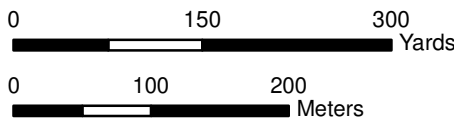
Map 7-1b. Surface sediment sample locations near outfalls, RM 1.2 to RM 2.5

Prepared by craigh, 6/25/20; W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 7-1c 6994 Near-outfall locations.mxd



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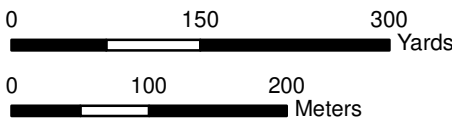
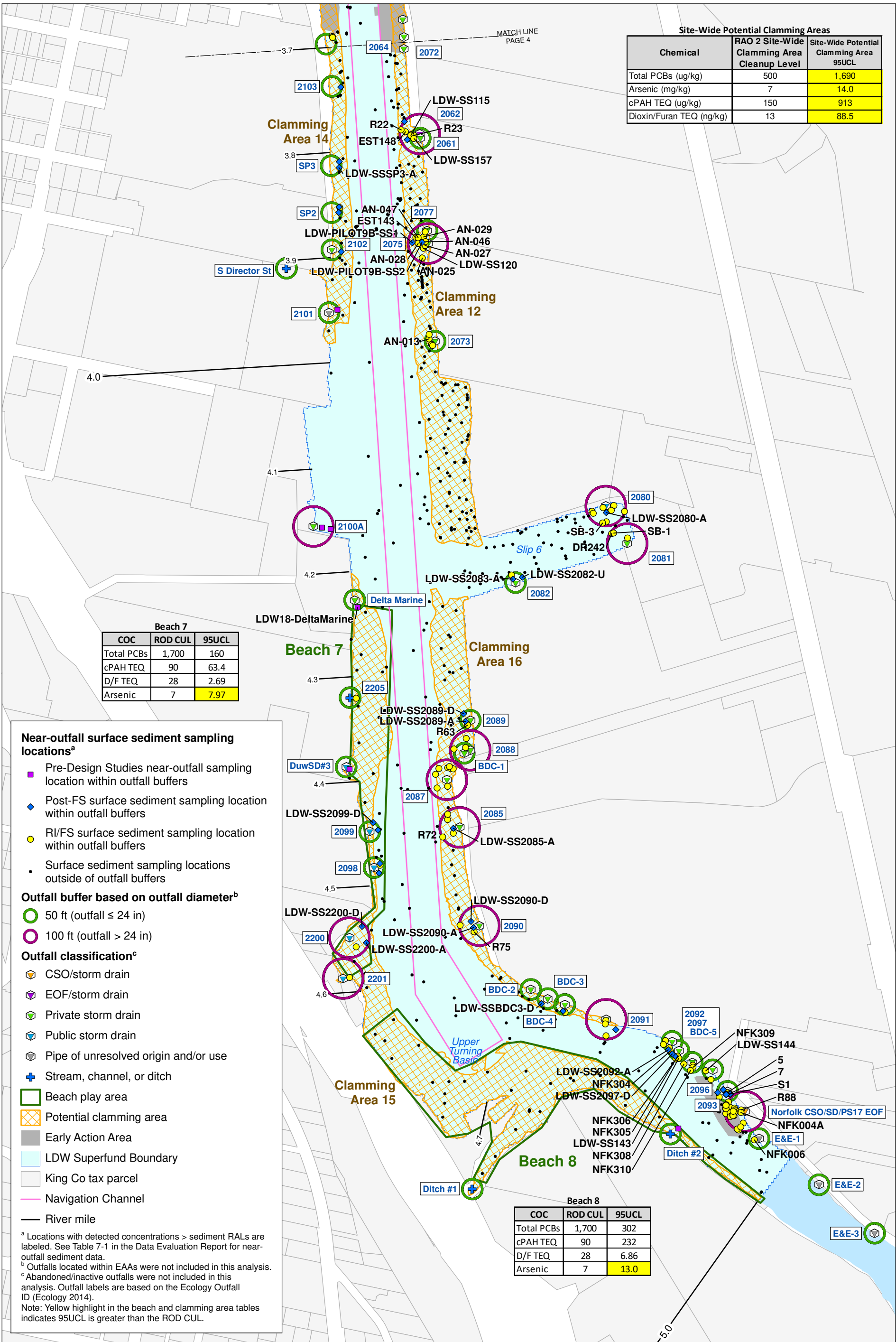


Map 7-1c. Surface sediment sample locations near outfalls, RM 2.5 to RM 3.7

LDW PRE-DESIGN STUDIES DATA EVALUATION REPORT



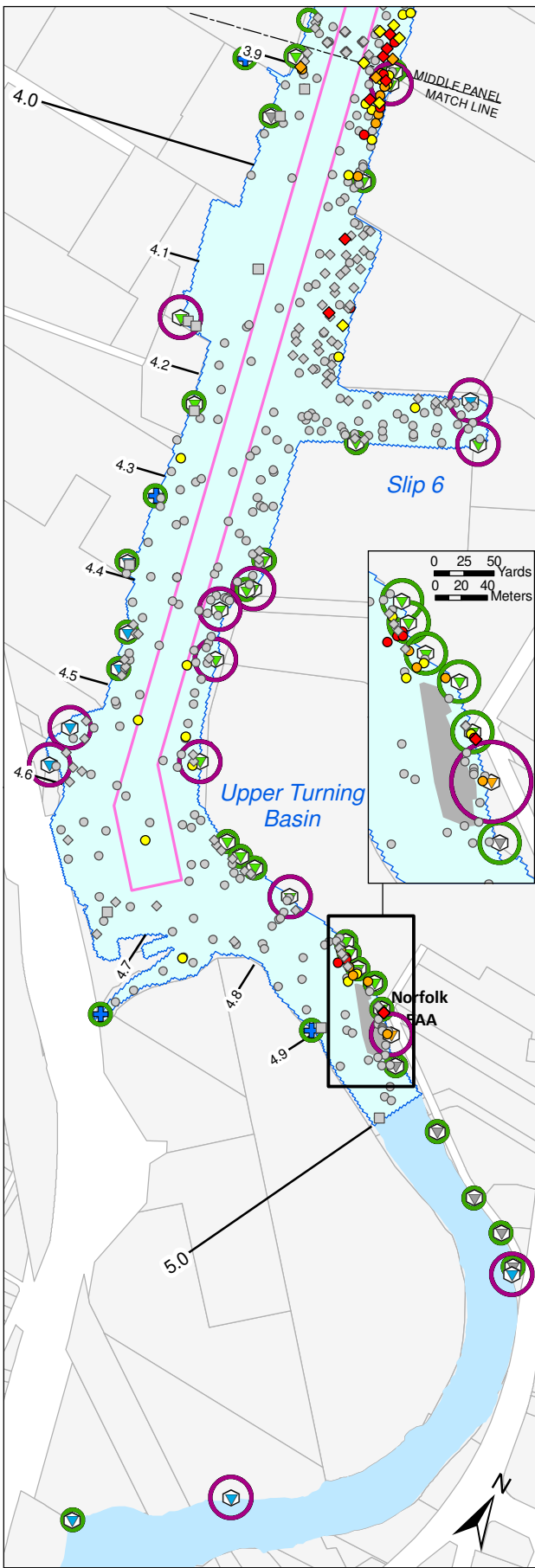
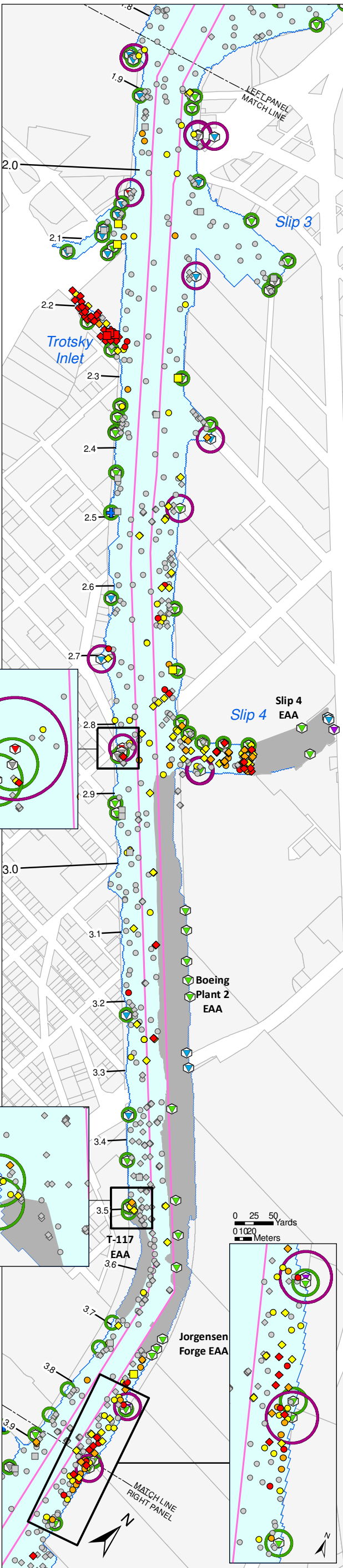
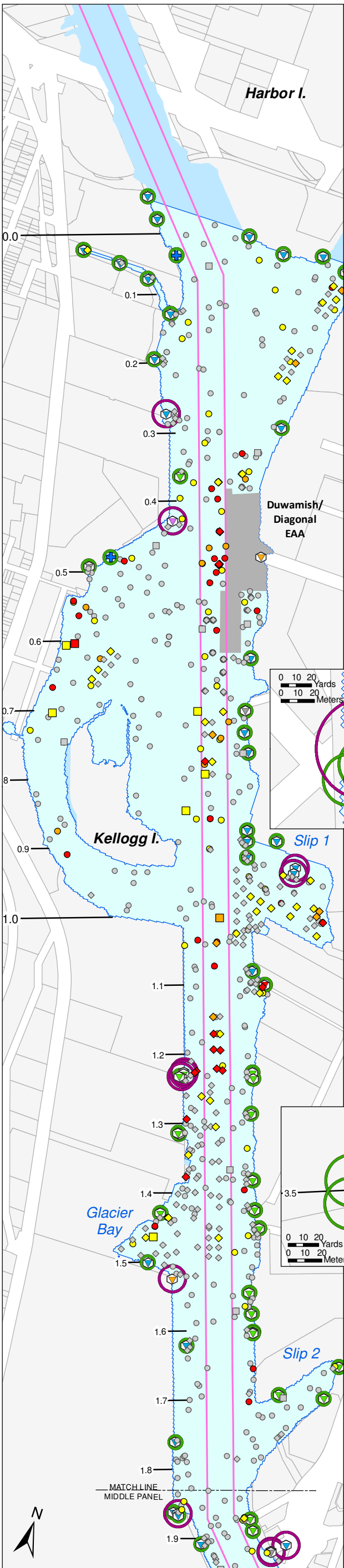
Prepared by craigh, 6/25/20; W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 7-1d 6894 Near-outfall locations.mxd



Map 7-1d. Surface sediment sample locations near outfalls, RM 3.7 to RM 5.0



Prepared by craigh, 6/25/20; W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 7-2a 6994 Near-outfall locations - PCBs.mxd



- Pre-Design Studies sampling location
- ◇ Post-FS surface sediment sampling location
- RI/FS surface sediment sampling location

**Total PCB RAL exceedance factor**

- > 3
- > 2 and ≤ 3
- > 1 and ≤ 2
- ≤ 1

**Outfall buffer based on outfall diameter<sup>a</sup>**

- 50 ft (outfall ≤ 24 in)
- 100 ft (outfall > 24 in)

**Outfall classification<sup>b</sup>**

- ◆ CSO
- ◆ CSO/storm drain
- ◆ CSO/EOF
- ◆ EOF/storm drain
- ◆ Private storm drain
- ◆ Public storm drain
- ◆ Pipe of unresolved origin and/or use
- ◆ Stream, channel, or ditch

■ Early Action Area

■ LDW Superfund Boundary

■ King Co tax parcel

— Navigation Channel

— River mile

<sup>a</sup> Outfalls located within EAAs were not included in this analysis.

<sup>b</sup> Abandoned/inactive outfalls were not included in this analysis.

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0 0.1 0.2  
Miles

0 0.2 0.4  
Kilometers

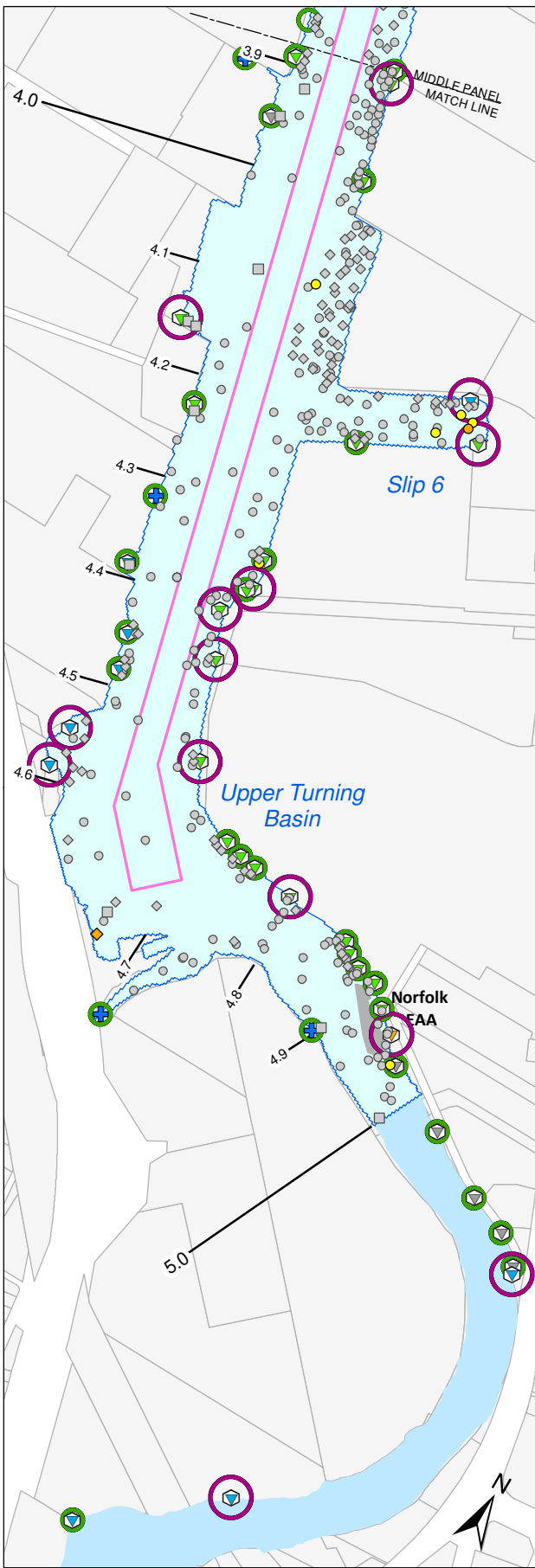
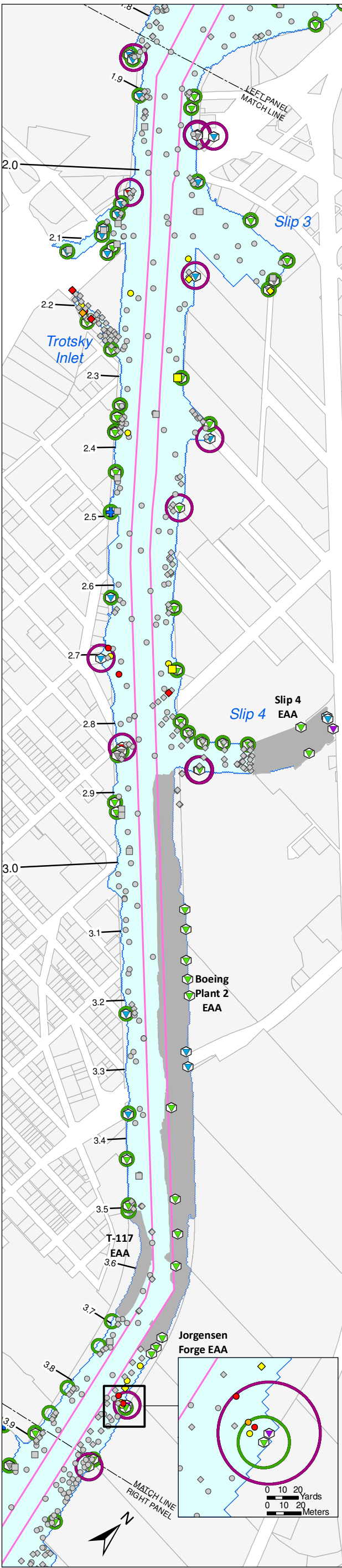
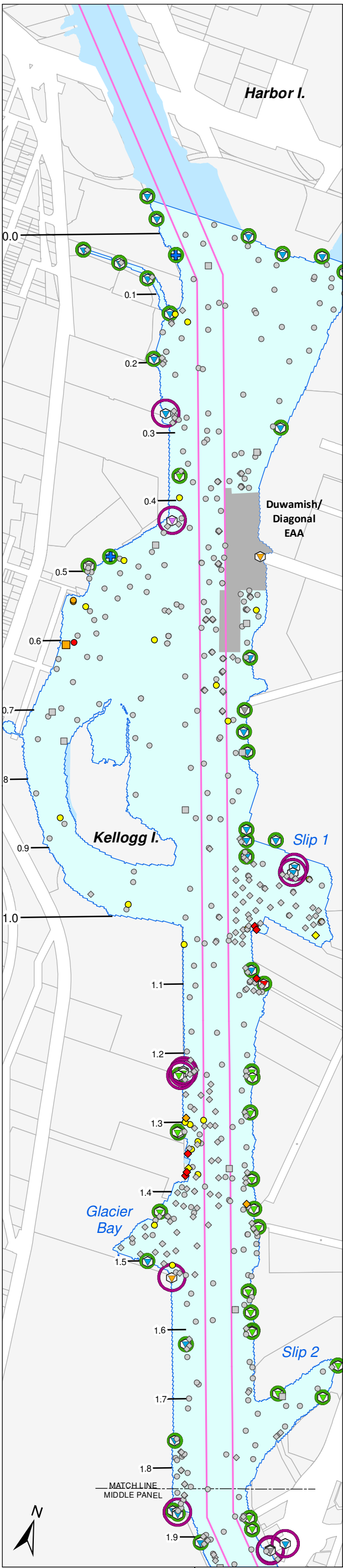
Scale is the same for each inset map

Map 7-2a. Near-outfall surface sediment  
sample locations and RAL exceedances -  
total PCBs

LDW PRE-DESIGN STUDIES DATA EVALUATION REPORT



Prepared by craigh, 6/25/20; W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 7-2b 6994 Near-outfall locations - cPAHs.mxd



- Pre-Design Studies sampling location
  - ◇ Post-FS surface sediment sampling location
  - RI/FS surface sediment sampling location
- cPAH RAL exceedance factor**
- > 3
  - > 2 and ≤ 3
  - > 1 and ≤ 2
  - ≤ 1
- Outfall buffer based on outfall diameter<sup>a</sup>**
- 50 ft (outfall ≤ 24 in)
  - 100 ft (outfall > 24 in)
- Outfall classification<sup>b</sup>**
- ◆ CSO
  - ◆ CSO/storm drain
  - ◆ CSO/EOF
  - ◆ EOF/storm drain
  - ◆ Private storm drain
  - ◆ Public storm drain
  - ◆ Pipe of unresolved origin and/or use
  - ◆ Stream, channel, or ditch
  - Early Action Area
  - LDW Superfund Boundary
  - King Co tax parcel
  - Navigation Channel
  - River mile

<sup>a</sup> Outfalls located within EAAs were not included in this analysis.  
<sup>b</sup> Abandoned/inactive outfalls were not included in this analysis.

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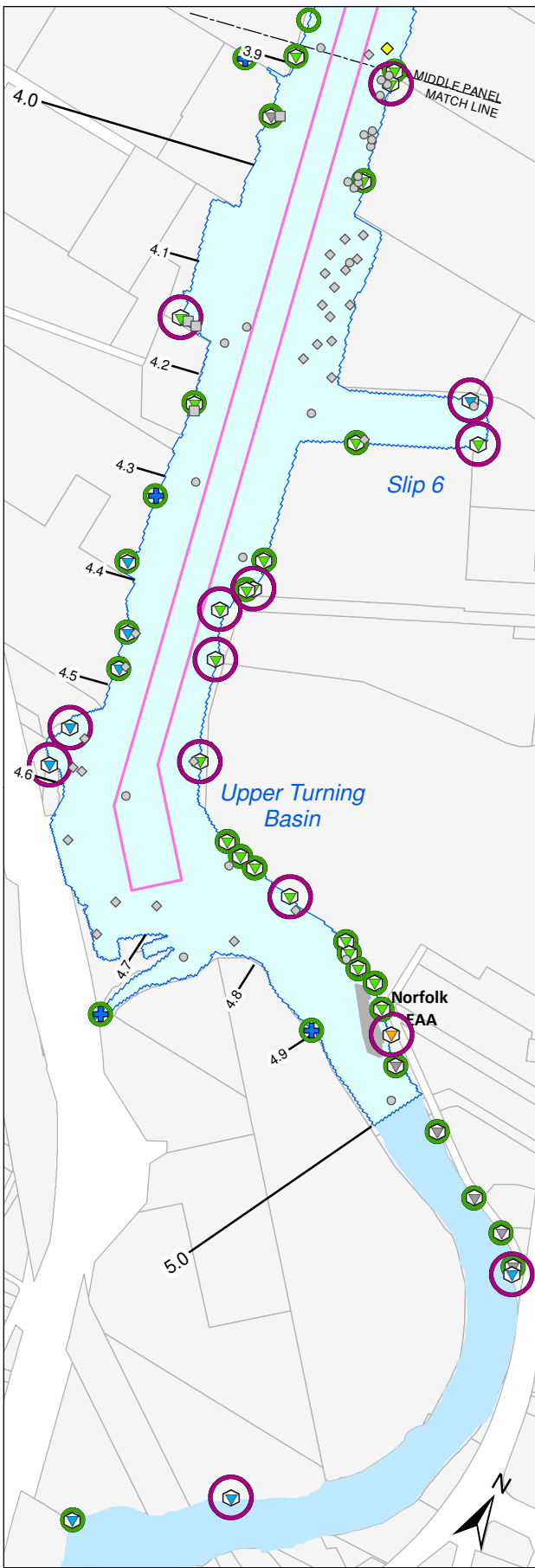
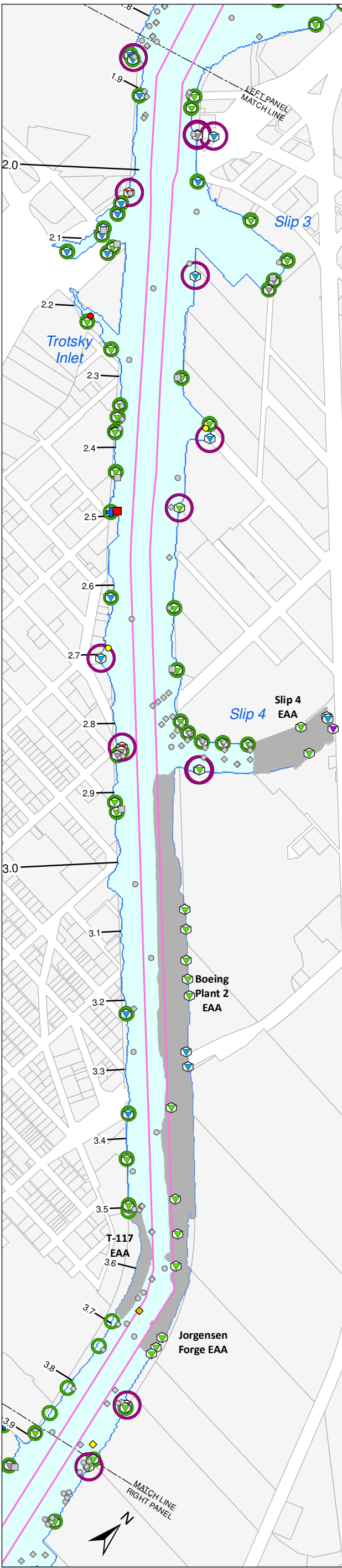
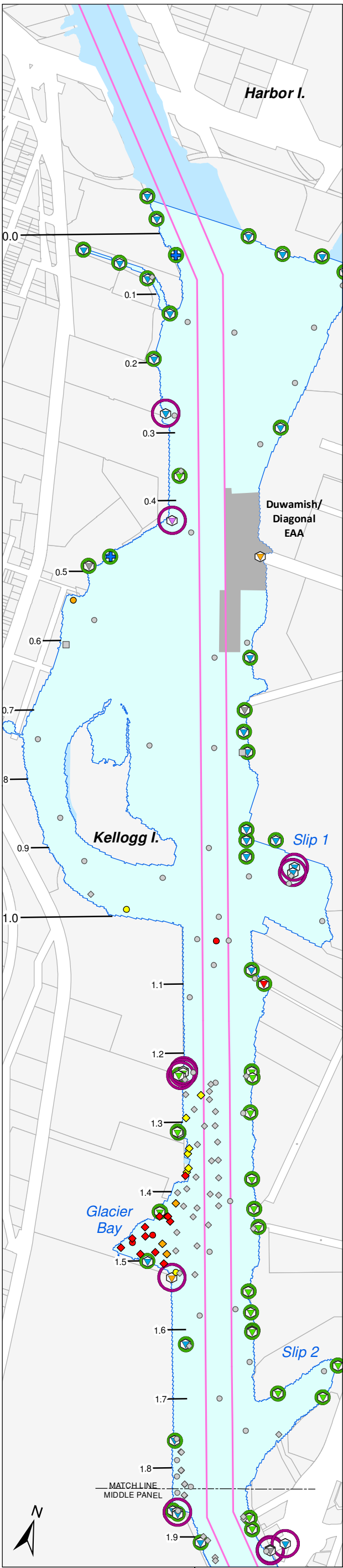
0 0.1 0.2 Miles  
0 0.2 0.4 Kilometers  
Scale is the same for each inset map

Map 7-2b. Near-outfall surface sediment sample locations and RAL exceedances - cPAHs

LDW PRE-DESIGN STUDIES DATA EVALUATION REPORT



Prepared by craigh, 6/25/20; W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 7-2c 6994 Nearoutfall locations - DF.mxd



- Pre-Design Studies sampling location
  - ◇ Post-FS surface sediment sampling location
  - RI/FS surface sediment sampling location
- Dioxin/furan TEQ RAL exceedance factor**
- > 3
  - > 2 and ≤ 3
  - > 1 and ≤ 2
  - ≤ 1

- Outfall buffer based on outfall diameter<sup>a</sup>**
- 50 ft (outfall ≤ 24 in)
  - 100 ft (outfall > 24 in)

- Outfall classification<sup>b</sup>**
- ◆ CSO
  - ◆ CSO/storm drain
  - ◆ CSO/EOF
  - ◆ EOF/storm drain
  - ◆ Private storm drain
  - ◆ Public storm drain
  - ◆ Pipe of unresolved origin and/or use
  - ◆ Stream, channel, or ditch
  - Early Action Area
  - LDW Superfund Boundary
  - King Co tax parcel
  - Navigation Channel
  - River mile

<sup>a</sup> Outfalls located within EAAs were not included in this analysis.  
<sup>b</sup> Abandoned/inactive outfalls were not included in this analysis.

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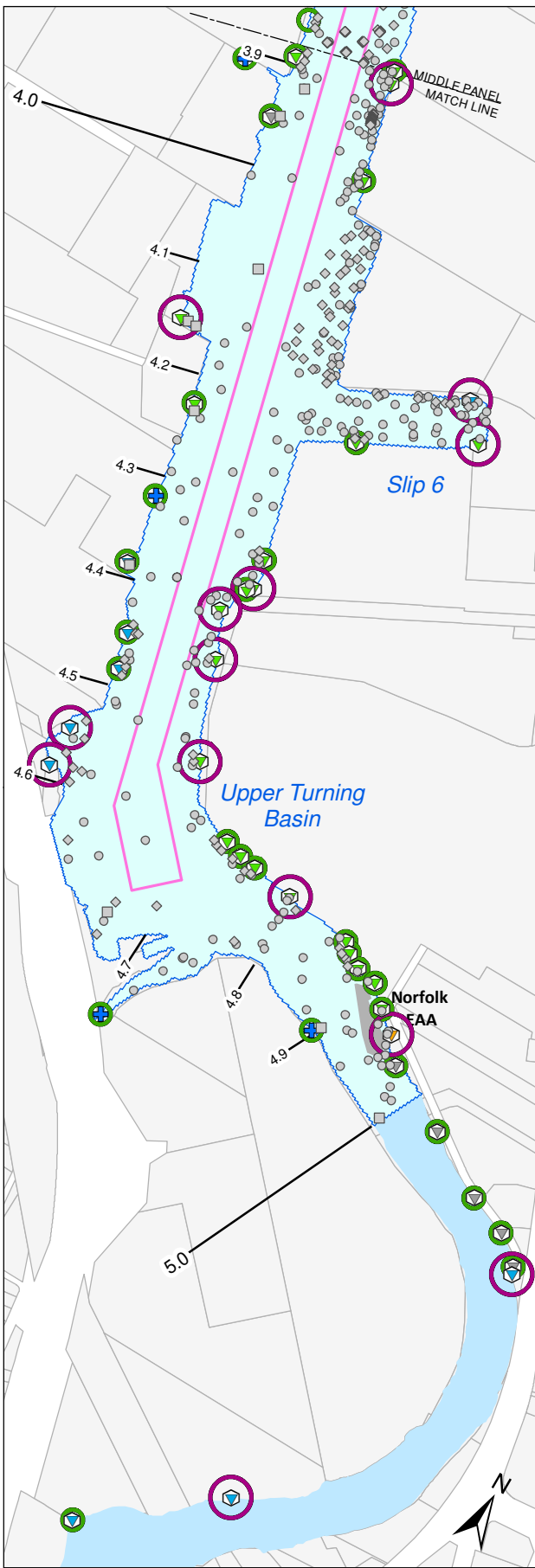
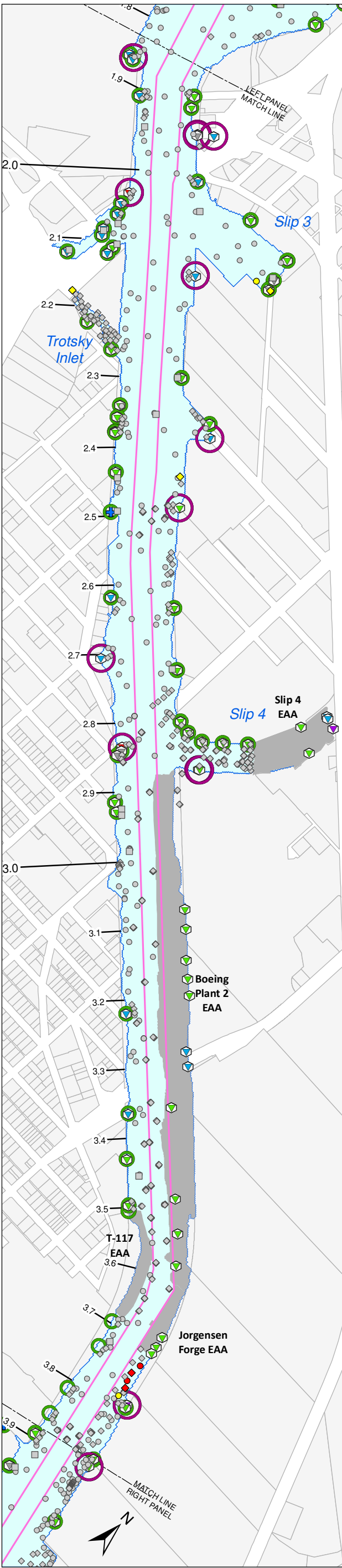
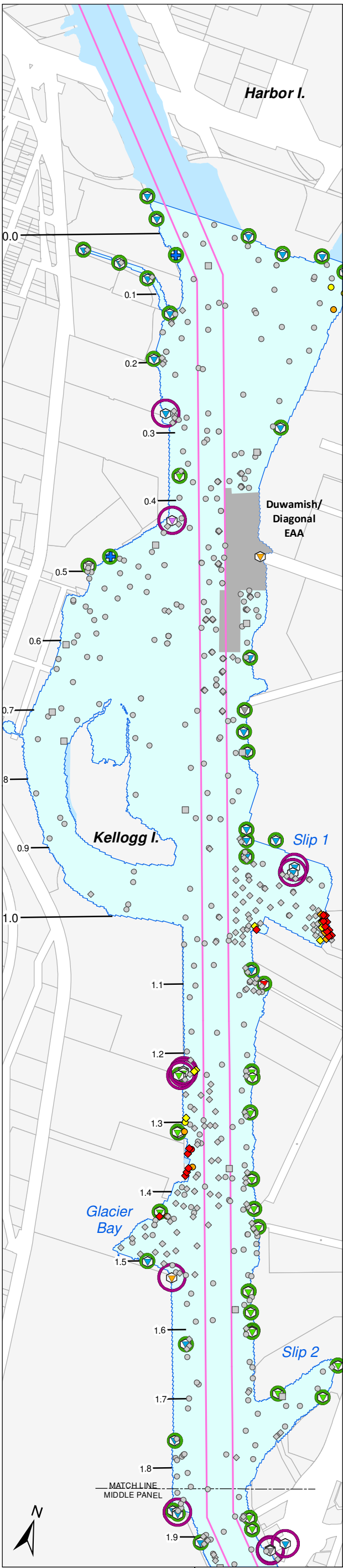
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0 0.1 0.2 Miles  
0 0.2 0.4 Kilometers  
Scale is the same for each inset map

Map 7-2c. Near-outfall surface sediment sample locations and RAL exceedances - dioxin/furan TEQ

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- Pre-Design Studies sampling location
  - ◇ Post-FS surface sediment sampling location
  - RI/FS surface sediment sampling location
- Arsenic RAL exceedance factor**
- > 3
  - > 2 and ≤ 3
  - > 1 and ≤ 2
  - ≤ 1

- Outfall buffer based on outfall diameter<sup>a</sup>**
- 50 ft (outfall ≤ 24 in)
  - 100 ft (outfall > 24 in)

- Outfall classification<sup>b</sup>**
- ◇ CSO
  - ◇ CSO/storm drain
  - ◇ CSO/EOF
  - ◇ EOF/storm drain
  - ◇ Private storm drain
  - ◇ Public storm drain
  - ◇ Pipe of unresolved origin and/or use
  - ◇ Stream, channel, or ditch
  - Early Action Area
  - LDW Superfund Boundary
  - King Co tax parcel
  - Navigation Channel
  - River mile

<sup>a</sup> Outfalls located within EAAs were not included in this analysis.  
<sup>b</sup> Abandoned/inactive outfalls were not included in this analysis.

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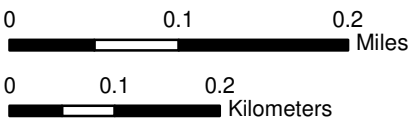
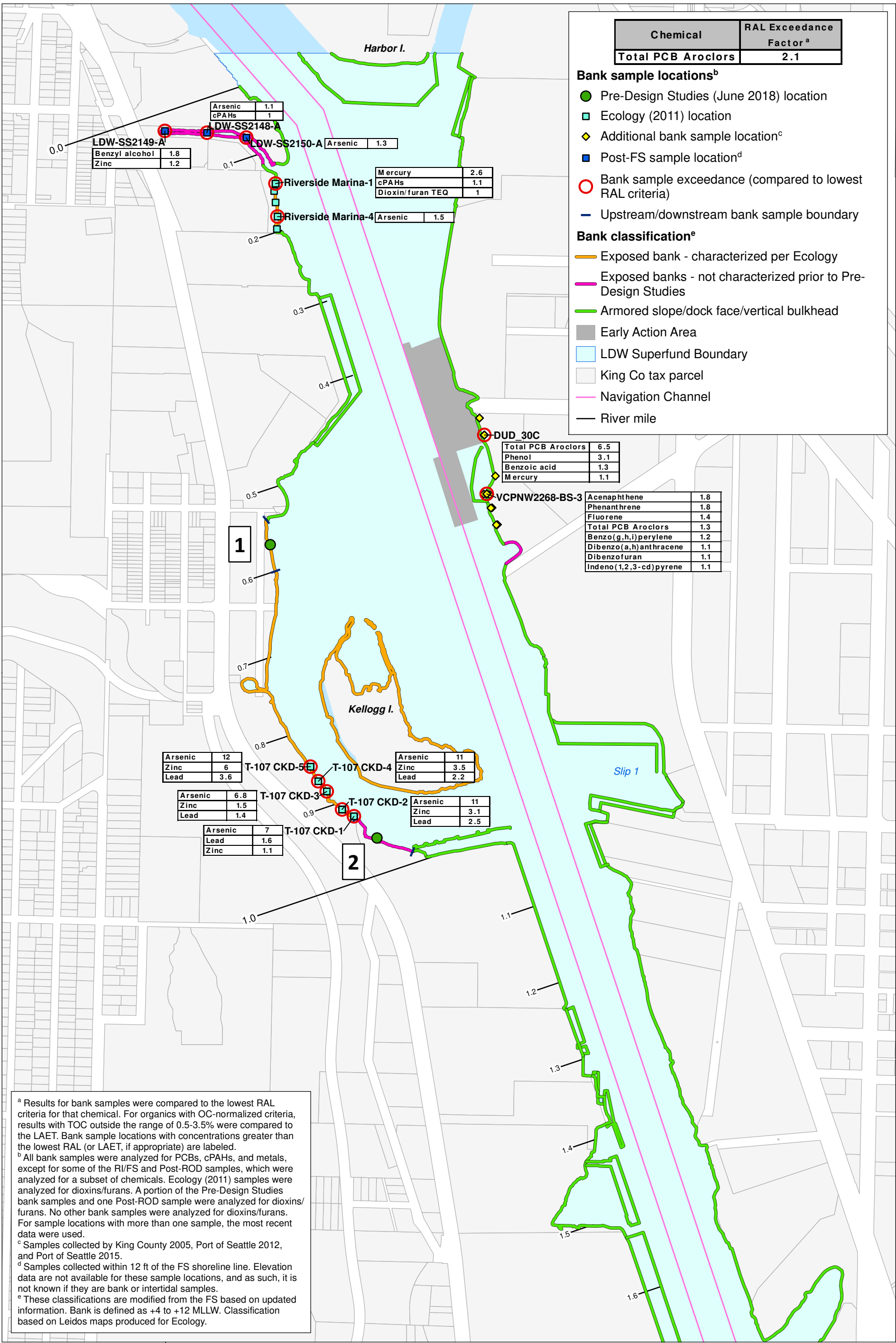
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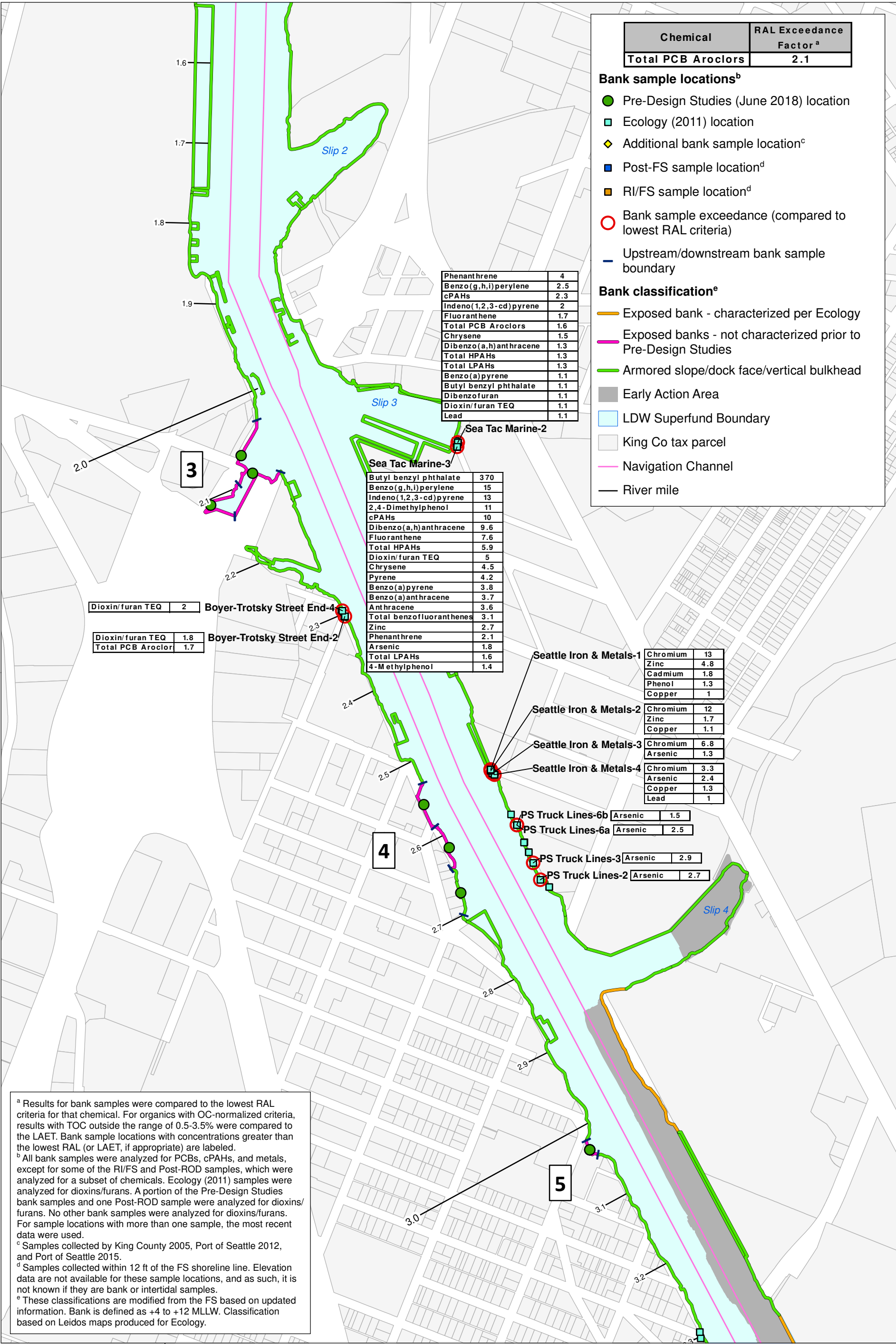
0 0.1 0.2 Miles  
0 0.2 0.4 Kilometers  
Scale is the same for each inset map

Map 7-2d. Near-outfall surface sediment sample locations and RAL exceedances - arsenic

LDW PRE-DESIGN STUDIES DATA EVALUATION REPORT







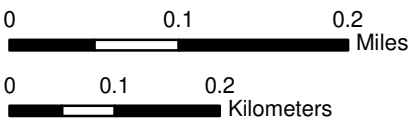
<sup>a</sup> Results for bank samples were compared to the lowest RAL criteria for that chemical. For organics with OC-normalized criteria, results with TOC outside the range of 0.5-3.5% were compared to the LAET. Bank sample locations with concentrations greater than the lowest RAL (or LAET, if appropriate) are labeled.

<sup>b</sup> All bank samples were analyzed for PCBs, cPAHs, and metals, except for some of the RI/FS and Post-ROD samples, which were analyzed for a subset of chemicals. Ecology (2011) samples were analyzed for dioxins/furans. A portion of the Pre-Design Studies bank samples and one Post-ROD sample were analyzed for dioxins/furans. No other bank samples were analyzed for dioxins/furans. For sample locations with more than one sample, the most recent data were used.

<sup>c</sup> Samples collected by King County 2005, Port of Seattle 2012, and Port of Seattle 2015.

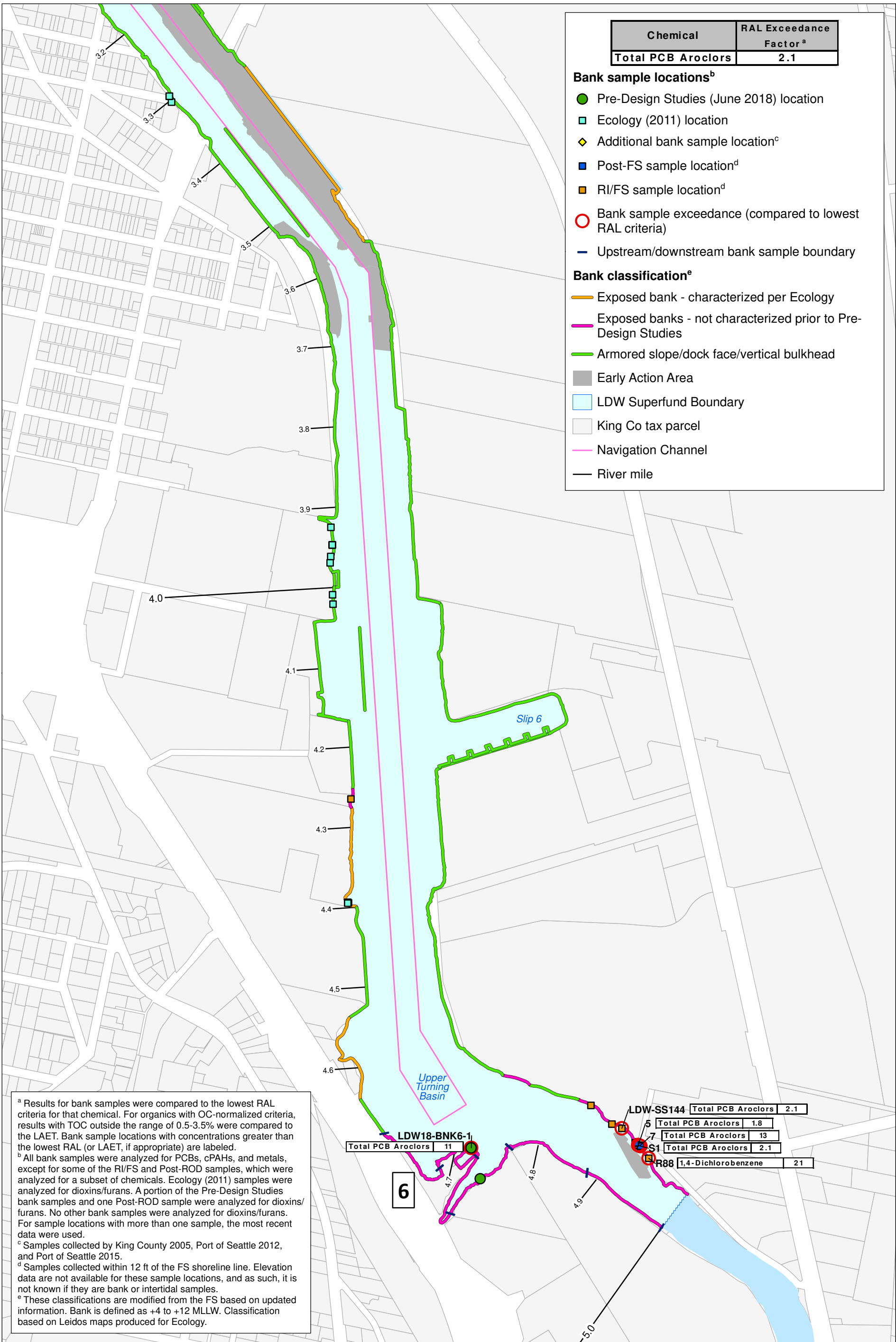
<sup>d</sup> Samples collected within 12 ft of the FS shoreline line. Elevation data are not available for these sample locations, and as such, it is not known if they are bank or intertidal samples.

<sup>e</sup> These classifications are modified from the FS based on updated information. Bank is defined as +4 to +12 MLLW. Classification based on Leidos maps produced for Ecology.

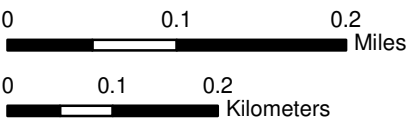




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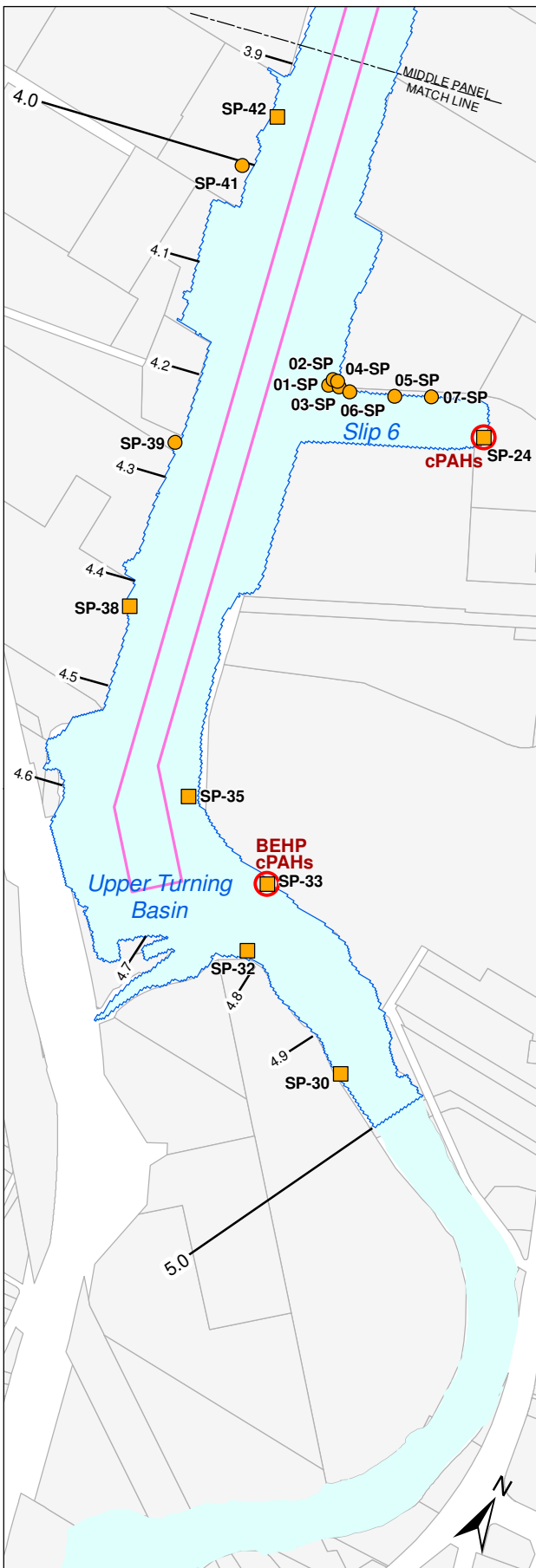
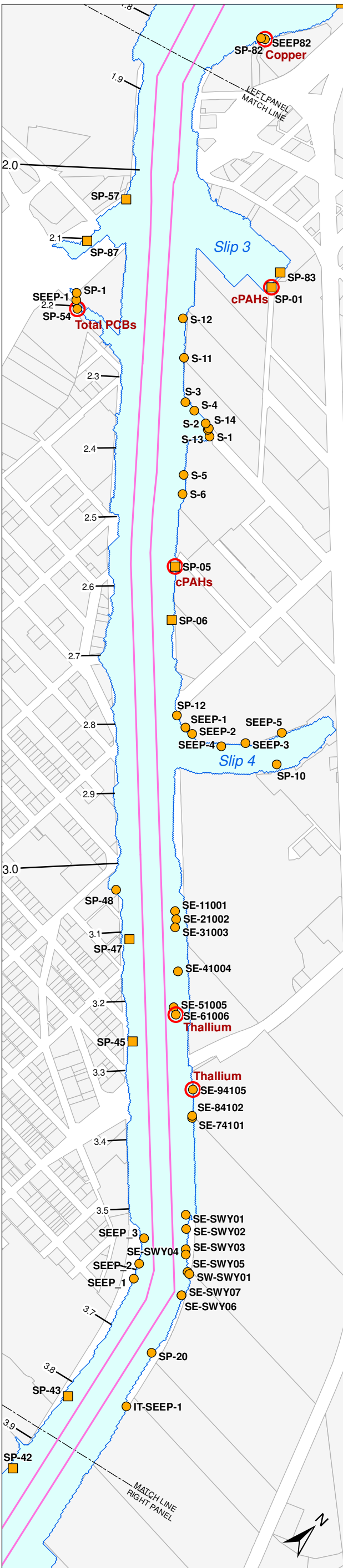
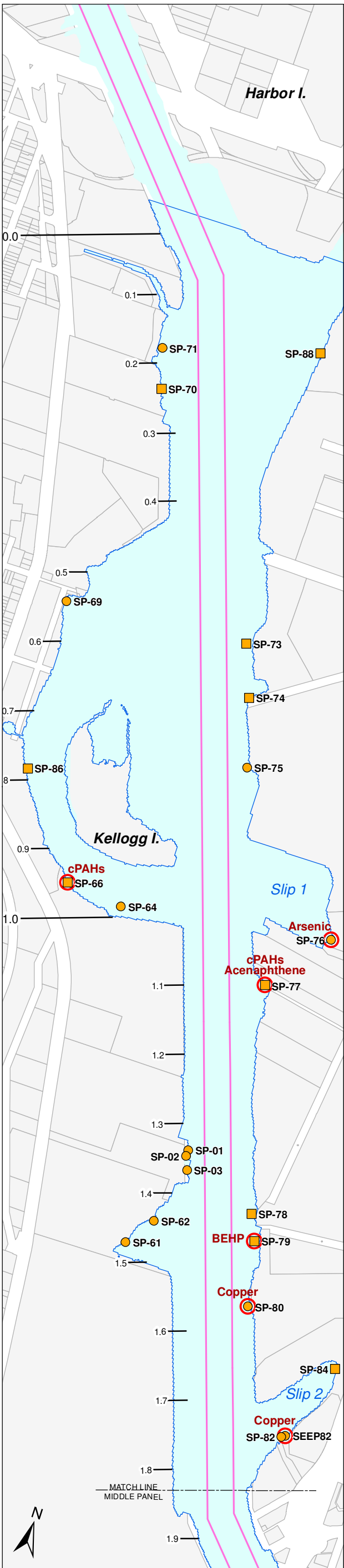
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**Map 7-3c. Comparison of bank data with lowest surface sediment RALs, RM 3.2 to RM 5.0**

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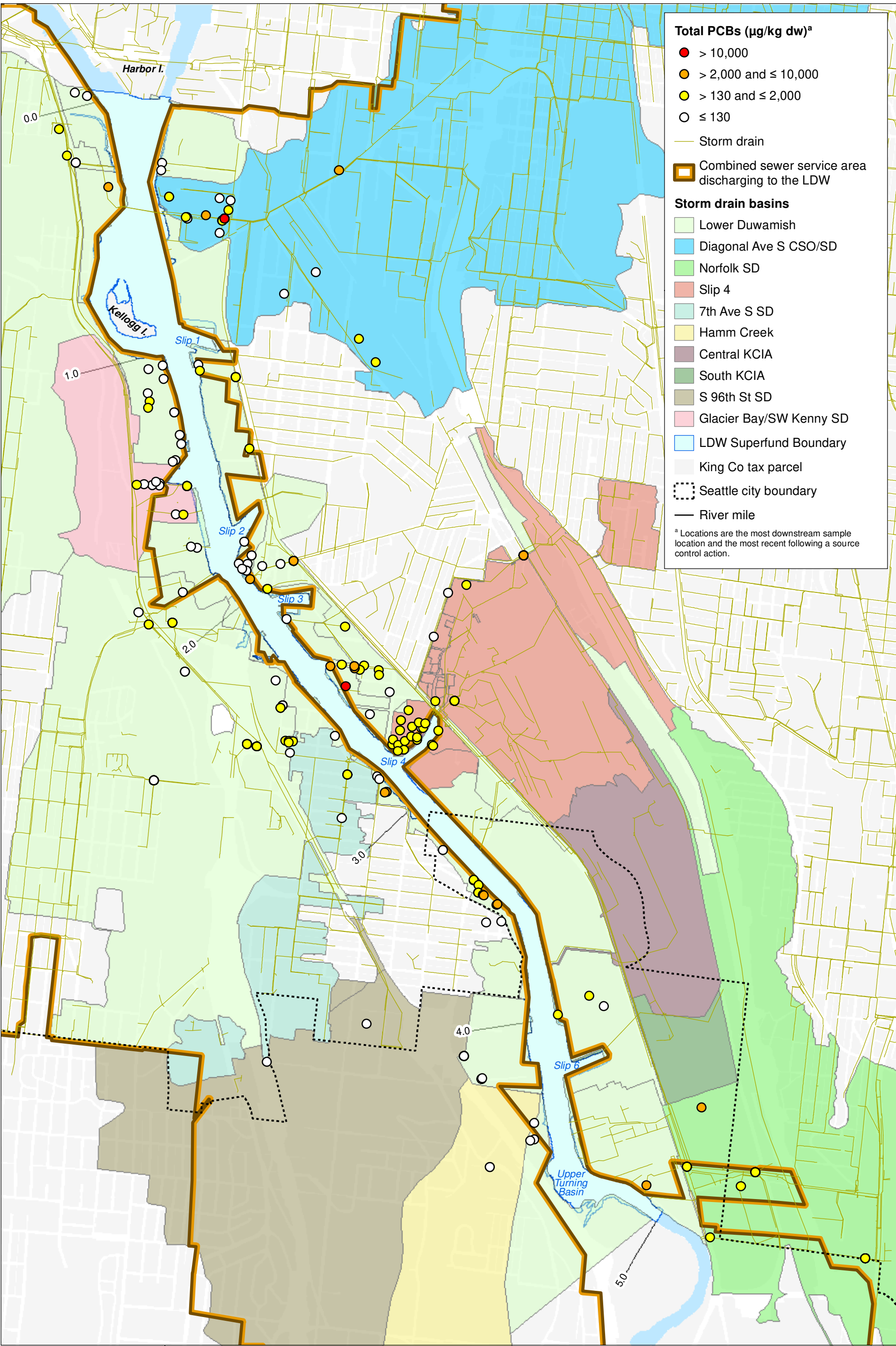
**Seep locations with dissolved data**

- Pre-Design Studies seep sampling location
- RI/FS seep sampling location
- Seep location with concentration > groundwater PCUL<sup>a</sup>
- King Co tax parcel
- LDW Superfund Boundary
- Navigation Channel
- River mile

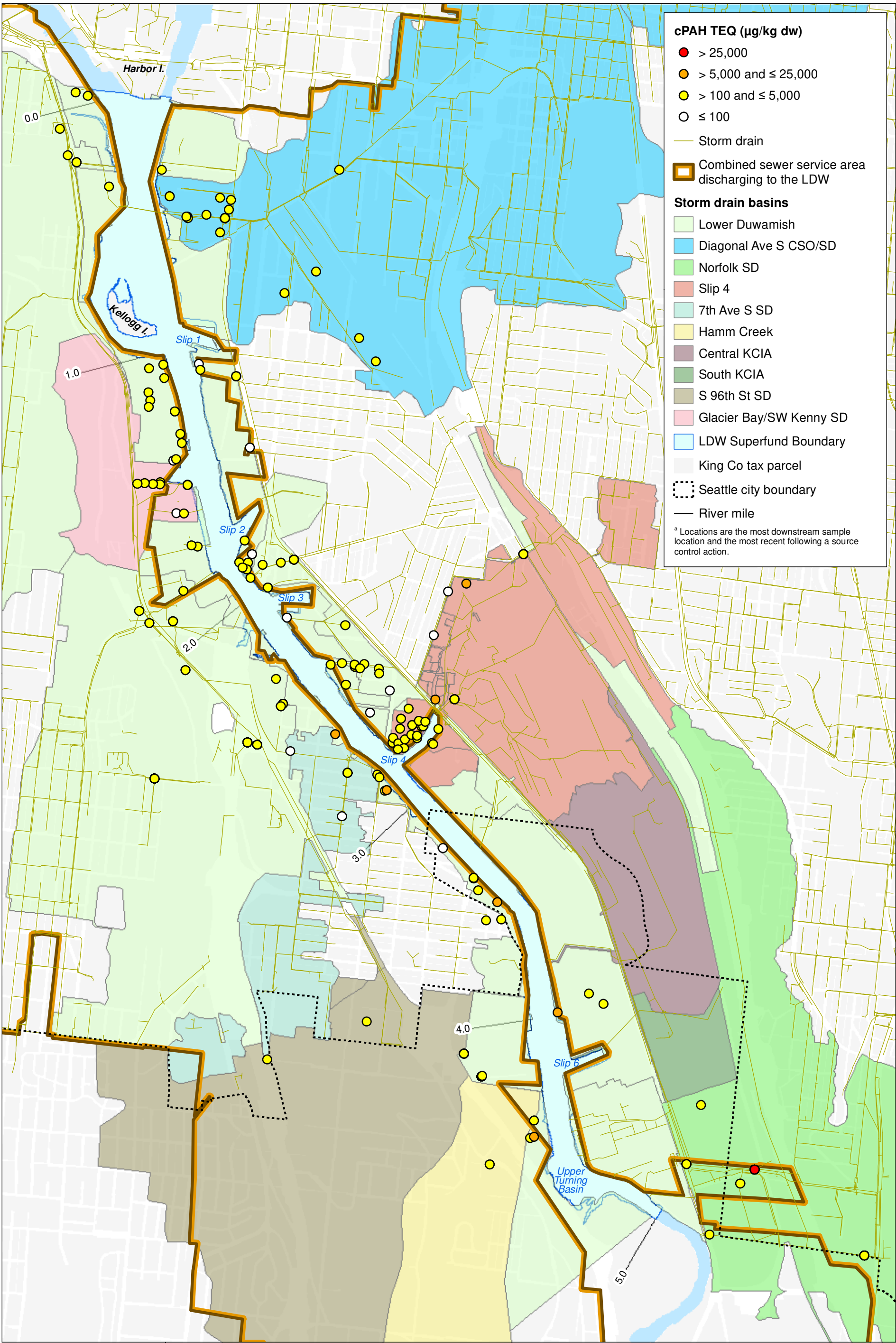
<sup>a</sup> Detected concentrations in filtered seep water were compared to groundwater PCULs protective of sediment listed in Ecology 2018. Locations are labeled with chemicals whose concentrations are > groundwater PCUL.

**Map 7-4. Comparison of seep data to groundwater screening levels protective of sediment in Ecology 2018**





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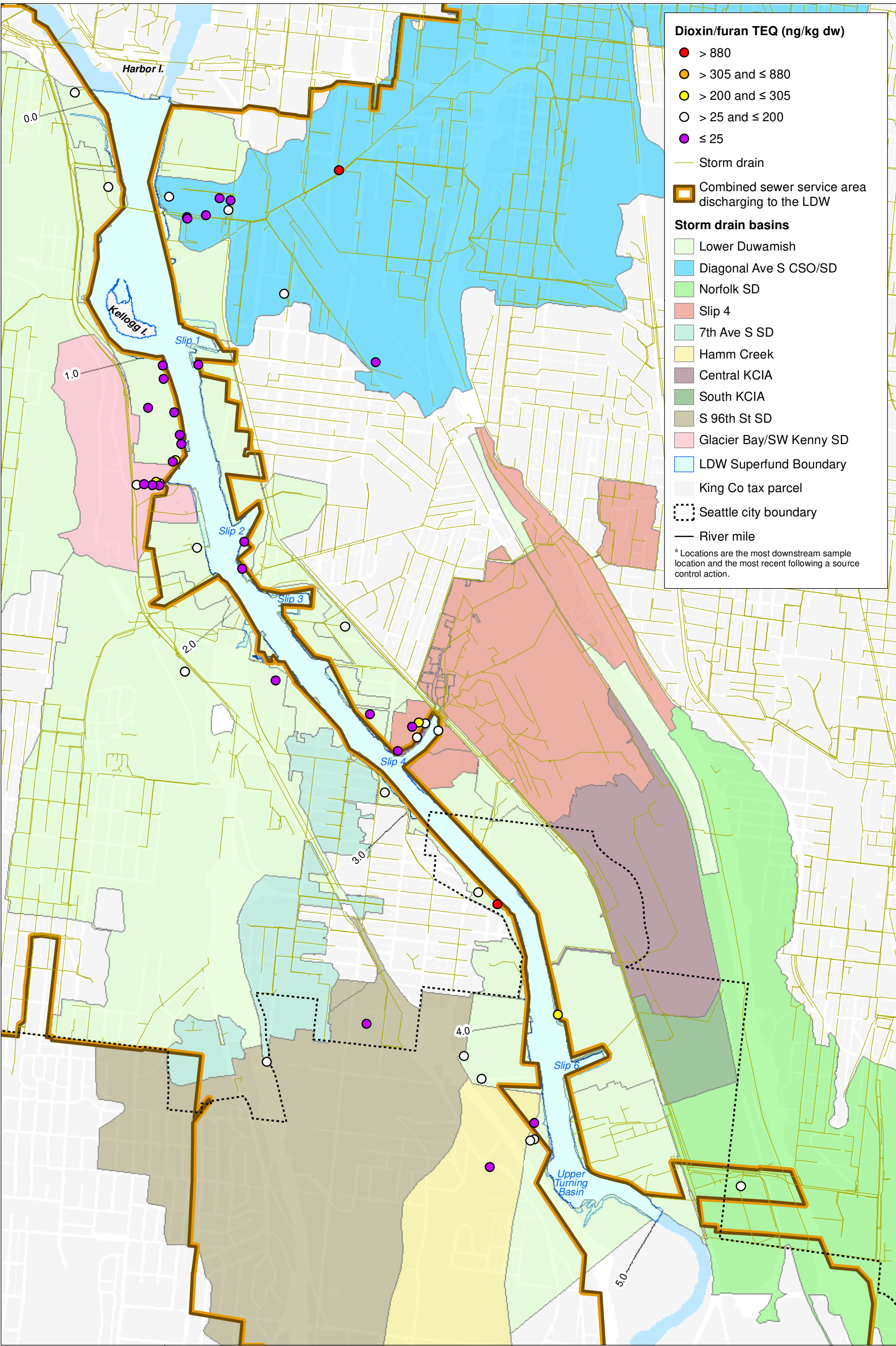
0 0.25 0.5  
Miles

0 0.5 1  
Kilometers

**Map 8-2. BCM lateral input source tracing  
sample data through October 2018 – cPAHs**

**LDW PRE-DESIGN STUDIES DATA EVALUATION REPORT**





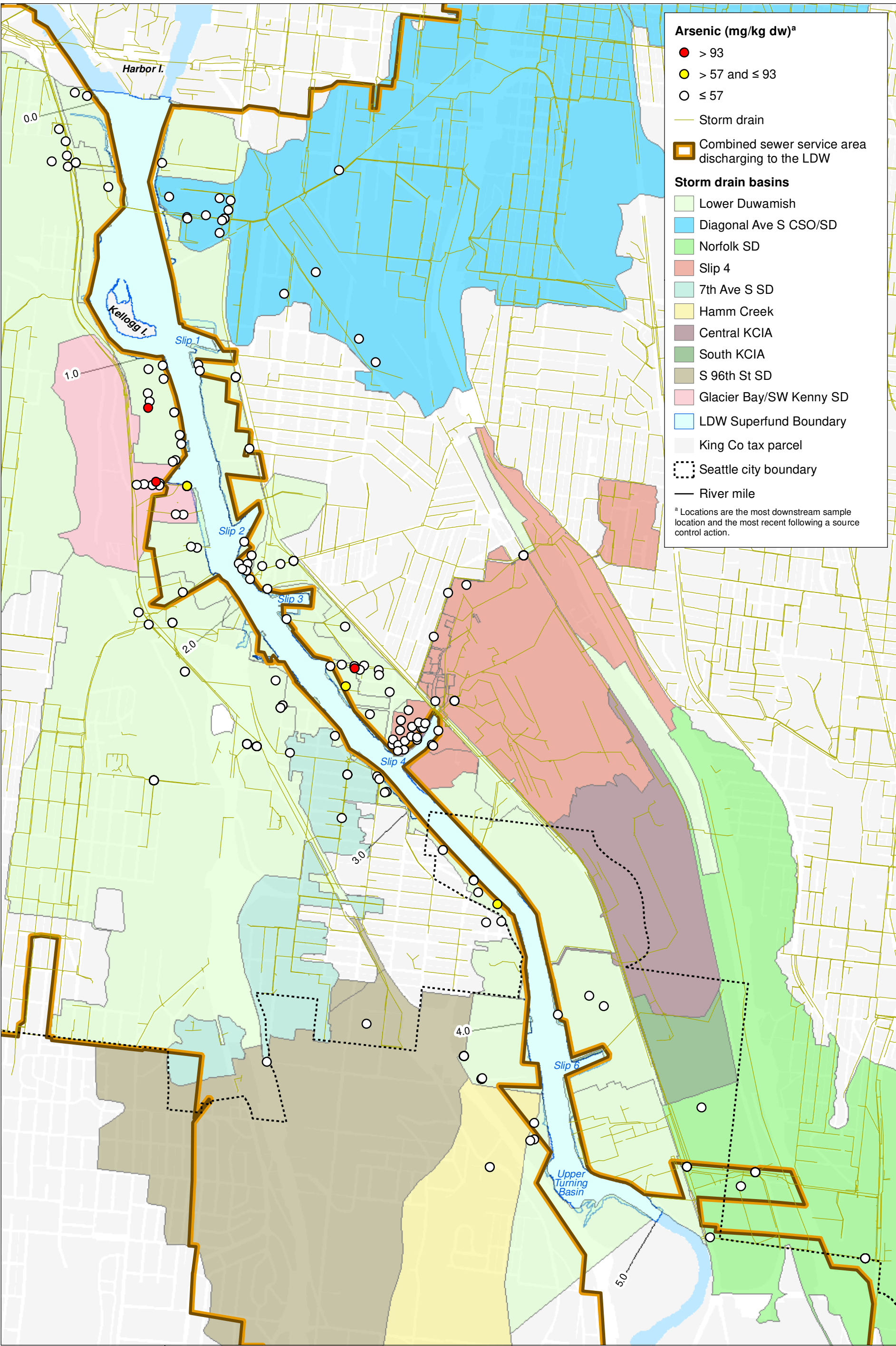
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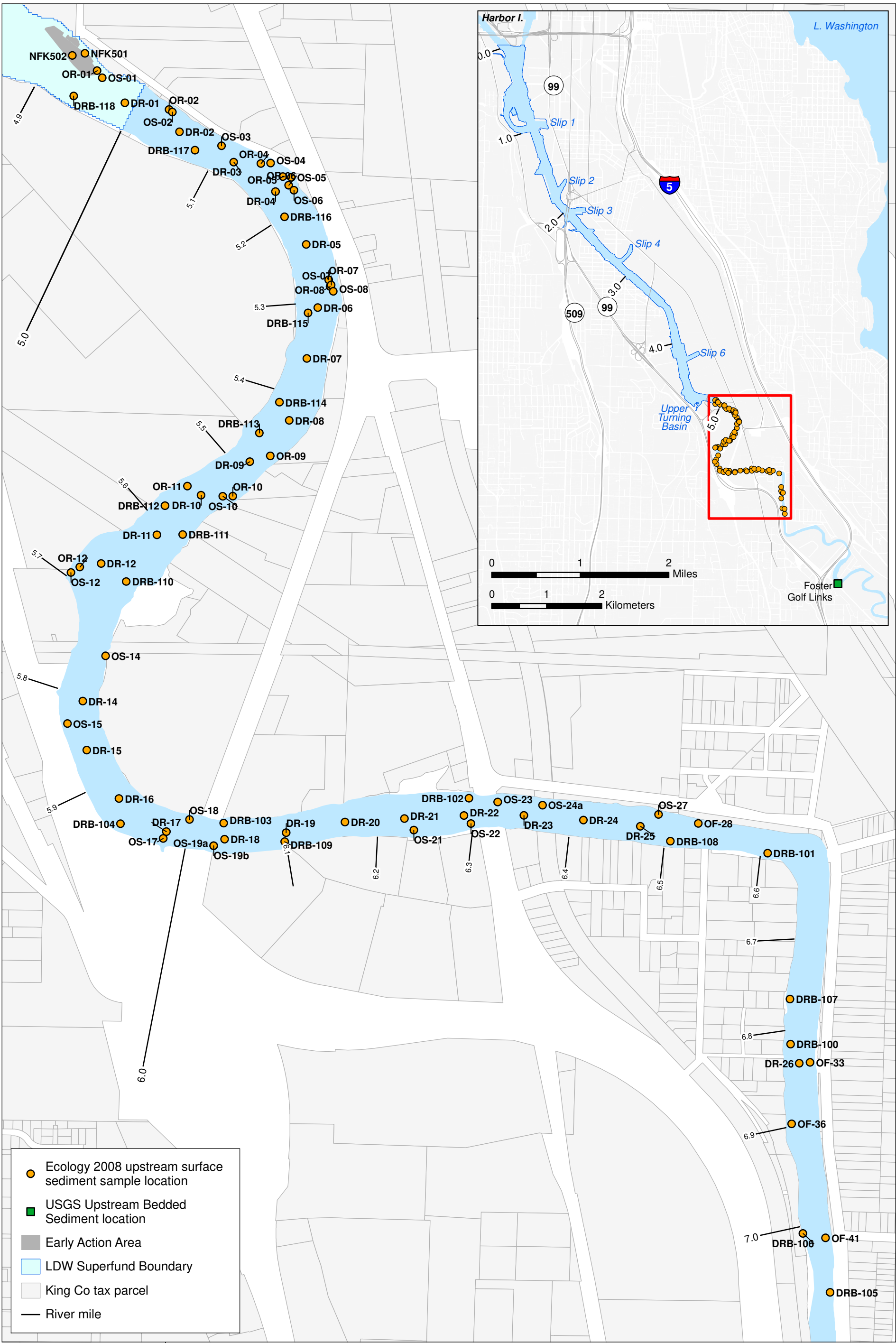
Map 8-3. BCM lateral input source tracing  
sample data through October 2018 –  
dioxins/furans

LDW PRE-DESIGN STUDIES DATA EVALUATION REPORT





Prepared by craigh, 6/25/20, W:\Projects\Duwamish AOC\GIS\Maps and Analyses\Task 06 Data Evaluation Report\Map 8-5 6993 Upstream sediment.mxd



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**Map 8-5. Surface sediment sampling locations used to characterize sediments from upstream of the LDW Superfund boundary**

**LDW PRE-DESIGN STUDIES DATA EVALUATION REPORT**